REVENUE BRANCH

CHECKS III

Scaling Software Handbook

Version 3.01

BRITISH COLUMBIA

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Function and Special Keys 1

Procedure	This chapter explains: • Function Keys, • Goto Log/Change Mark Function, and • Menus and Fast Keys. To use these keys on specific handhelds, see Chapter 8 – "Husky FS/2 and FS/GS".

1.1 Function Keys

The following table lists the Function Keys to use as quick reference for the CHECKS III application. These navigation keys assist the user in various menus and screens:

Function Key	Detail
ESC (Abort/Exit).	This key is used to abandon all changes made by the user. If changes will not be saved, an information screen will prompt the user to confirm the action: "**Exit without saving (Y/N)?**" The key is disabled in LogMode.
F1 **Help**	This key enables the Help screen from almost any CHECKS III screen. The Help screen presented will correspond to the screen from which Help is called.
F2 **Deduction Calculator**	This key will call the Deduction Calculator in Log Entry Mode once a set of gross dimensions has been entered. Selecting F2 once will bring up the Level 1 Calculator, selecting F2 again (from the Level 1 Calc) will bring up the Level 2 Calculator. For more detailed information, refer to Chapter 3 (Deduction Calculator).
F3 **Save & Exit/Cont**	This key is used to exit from the current screen, saving any changes or entries made. It may also be used to advance to the next screen.
F4 **PickList/Prompt**	This key calls a "look-up" list for the data entry field. Some fields require the user to select a value from a "look-up" table. Selecting F4 will display the contents of the look up table on the screen. The user may scroll through the list and select a value by highlighting it and pressing Enter. This value is then placed in the data field where F4 was selected.

Function Key	Detail
F5 **LogFuncs/Setup**	This key calls the LogFunctions/Setup Menu from anywhere within the CHECKS III program. For more detailed information refer to Chapter 7 – "Settings".
F6 **Change Timbermark/Goto Log #**	This key may be used in Log or Summary Entry Mode. It allows access to the "Goto_log" (Log Entry only) and "Chg_mark" functions. Refer to Section 1.2 for more information.
F7 **Toggle Screens**	This key is used to navigate between the two screens for Log or Summary Headers – or between the Sort/Remark window for Gross Scale, Log Entry.
F8 **Goto Log/Summary/Site Inspection Entry or Site Inspection Detail**	This key is called from the Header screens (when all mandatory Header information has been entered) and will advance the user to the Log Entry, Summary Entry or Site Inspection Entry screens. This key also calls up the detail window for a question in Site Inspection.
F9 **Insert Blank Record/Data Line**	This key will insert a new empty data record, pushing the current record ahead. For LogMode and SummaryMode a data record is the line on which the cursor is. This key may also be used for the Tables and the Deduction Calculators.
F10 **Delete Record/Data Line**	This key will delete the data record where the cursor is. The following records will be moved up to fill in the deleted record. It may be used in the same areas as F9 (Insert).

1.2 Goto Log #/Change Timber Mark (F6)

F6 is available in the log tally and summary entry screens only. Selecting F6 from the Log Tally screen will bring up the Other Functions Menu as shown below:

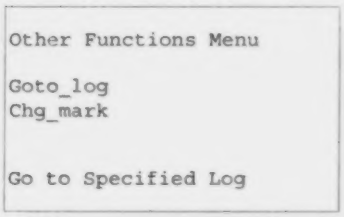


Figure 1.1 Other Functions Menu.

1.2.1 Goto Log

This function allows the user to skip directly to a specified log without having to scroll through the entire list of logs in the parcel. This is useful for large log parcels when scrolling through the logs may take a long time.

	Task	Detail
1.	Select F6 at the log tally screen.	At the Log Tally screen, select F6 (Change Timbermark/Goto Log #)
2.	Select "**Goto_log**".	From the Other Functions Menu, highlight "**Goto_log**" and select Enter (or select the "**G**" key).

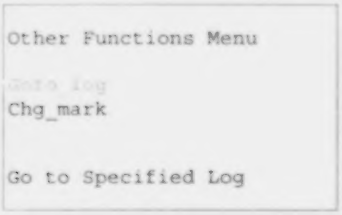


Figure 1.2 Other Functions Menu – Goto_log option.

	Task	Detail
3.	Enter the piece number.	Enter up to a 4-digit piece number and select Enter. The user is returned to the Log Tally screen at the log/piece number specified. If the number entered is larger than the number of pieces in the parcel, the user is advanced to the last log in the parcel.

1.2.2 Change Mark

This function allows the user to replace a particular timbermark with a new mark throughout the parcel.

	Task	Detail
1.	Go to the log or summary line timbermark to be changed.	Use the ⇧/⇩ cursor keys to advance to a log or summary line requiring a timbermark change.
2.	Select F6.	At the log tally or summary entry screen, select F6.
3.	Select **Chg_mark**. (Log Entry only)	From the Other Functions Menu, highlight "**Chg_mark**" and select Enter (or select the "**C**" key). If entering a summary this step does not apply.

4.	Enter new Timbermark and select F3.	Type in new timbermark to replace the existing one (also type in Paint (**Pnt**) or NMV if applicable) and select F3.

Change Mark (Log Tally)

```
Other Functions Menu

Goto_log
Chg mark
-----------------------
      TbrMark Pnt S/N
OLD   A12345  BA   N
NEW   A12346  BA   N
```

Change Mark (Summary)

```
Mark: A12346 Pt:BA NMV:
Sp Gr Sort   Pcs: Vol(M3)
CE 2         2     123.00
----------------------.00
      TbrMark Pnt S/N
OLD   A12346  BA
NEW   A12347   BA       2/ 1
```

Figure 1.3 Change Mark (Log Tally and Summary) menu.

1.3 Menus and FastKeys

1.3.1 Menus

Each menu in the CHECKS III application contains a unique capitalized letter for each selection. The user may select a menu choice by moving the cursor to highlight the menu option and select Enter, or simply by pressing the keyboard letter key corresponding to the capitalized letter:

```
Main Menu

          siteInsp
Reports   Upload
Files     iMporc
Tables    sEtup

Input/Edit scales
```

Figure 1.4 Main Menu

S - Scale **I** - site**I**nsp

R - **R**eports **U** – **U**pload

F - **F**iles **M** – i**M**port

T - **T**ables **E** - s**E**tup

Additionally, the last line on the screen shows more details about the menu item currently selected.

1.3.2 Jump Keys

For all screens with lists of records (eg. Pick-List, Scaler Table, Logs and Summary Entry), the jump keys are available. The jump keys scroll up/down through the list skipping a specified number of records.

The jump keys are page up/down for the Husky FS/2, FS/GS and PC.

Refer to Chapter 7 – "Settings" for information about how to set up the jump keys.

Enter Log Data 2

Figure 2.1 Flowchart showing the steps to enter log data.

Procedure	This chapter describes the procedure to enter a parcel. The steps for entering the parcel's header information are the same for both log detail and scale summary. Some steps will differ for piece scale or weight scale. Section 2.1 and 2.2 illustrate a series of menus and screens used to enter a parcel header. The user may select the menu screens for: • '**Scale Logs**': log detail data with individual log dimensions (for piece scale FS 36, FS 244, FS 416 and weight scale FS 239), and • '**Scale Summary**': summary data (weight scale FS 531 and piece scale FS 72). Section 2.3 uses the detail parcel data screens to describe the procedure to enter piece or weight scale tallies for: • Log detail data with individual log dimensions, or • Summary data. Once entered, the user has the option of printing the parcel detailed log listing (FS 36, FS 244, FS 416 and FS 239), a summary (FS 531 or FS 72), or a comparison report against a log or summary parcel. Refer to Chapter 5, Reports for printing instructions.
Menu	From the CHECKS III Main Menu: • Select the '**Scale**' option.
Tip	If a check scale is lost, but a summary printout exists, the parcel can be re-keyed as a summary to avoid re-entering each individual log.

Navigation Keys can be found at:

- The quick reference card,
- Chapter 1, Function and Special Keys, and
- At the end of this chapter.

2.1 Create a New Log Parcel (File)

The following procedure describes how to create a file to enter a weight scale or piece scale in the form of:

- Log detail data with individual log dimensions, or
- Summary data.

```
Main Menu
Scale       siteInsp
Reports     Upload
Files       iMport
Tables      sEtup

Input/Edit scales
```

Figure 2.2 Main Menu – Scale option.

	Task	Detail
1.	Select '**Scale**' from the Main Menu	At the CHECKS III Main Menu, highlight '**Scale**' and select Enter (or select the '**S**' key).

```
Scale Menu

Scale Logs
scale Summary
scale Products

Input/edit logs
```

Figure 2.3 Scale Menu.

	Task	Detail
2.	Pick from the Scale Menu, either:	At the Scale Menu choose either:
	'scale Logs'	• '**scale Logs**' to enter log detail data for the parcel. Highlight 'scale Logs' and select Enter (or select the '**L**' key).
	'scale Summary'	• '**scale Summary**' to enter summary data. Highlight 'scale Summary' and select Enter (or select the '**S**' key).
	'scale Products'	• Future release

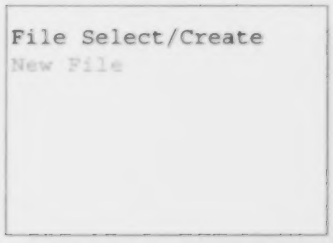


Figure 2.4 File Select/Create menu.

To view or edit an existing log file or summary file, highlight the file name and select Enter.

	Task	Detail
3.	Select '**New File**' from the File Select/Create Screen.	At the File Select/Create, highlight '**New File**' and select Enter.

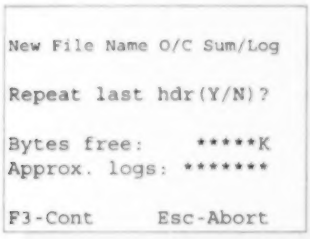


Figure 2.5 New File Name menu

	Task	Detail
4.	Ensure adequate space is available on the computer to enter either the number of logs in the parcel or the summary data.	Check the "Approx logs" field. If 200 logs or less, exit this screen (ESC) and free up space by deleting existing parcels or site inspections. Refer to Chapter 6 – "Maintain Tables and Files".
5.	Enter a unique descriptor (file name).	Name or number the parcel up to a maximum of 17 characters and select Enter. The new file name cannot be a name already used in this handheld. The file name must be unique in order to identify the parcel later for printing or editing.
6.	Enter "**C**" or "**O**" (Optional), in front of the "L" or "S" default field.	Enter "**C**" for check scale or "**O**" for original scale in front of the 'L' or 'S' field. This field is optional. The "L" (log detail) and "S" (summary) are default fields.
7.	Enter "Y" or "N" for "Repeat last header?"	• **Y** - The header fields will be populated from the previously entered parcel. Tally/Return number is incremented by 1. The user can overwrite any of this information. • **N** - The header will be blank and must be keyed manually.
8.	Select F3	If the user is happy with the information entered on this screen (☺), select F3 to move to the parcel header screens.

2.2 Enter Parcel Header

The following procedure describes how to enter piece scale or weight scale parcel header data for:

- Log detail data with individual log dimensions, and
- Summary data.

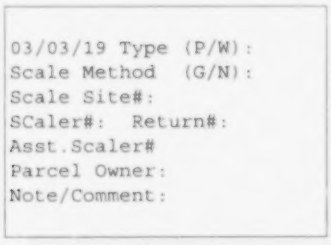


Figure 2.6 Example showing how to enter the scale parcel header data.

	Task	Detail
1.	Change existing date (Optional).	Date is taken from the current system date. To change the date use "←" from the 'Scale type' field and overwrite the existing values YY/MM/DD.
2.	Enter Scale type (P/W).	The date is taken automatically from the current system date, therefore the cursor starts in this field on this screen: • Enter "**P**" for piece scale • Enter "**W**" for weight scale The second header screen will depend on what is entered here (Section 2.2.1 or Section 2.2.2).
3.	Enter Dimensions method (G/N).	Enter "**G**" for gross scale, or "**N**" for net scale. The log data entry screens will differ depending on the value selected here.

	Task	Detail
4.	Enter a 4-character scale site number.	• Select F4 to display the available sites in the handheld (site table). Use the cursor keys and select Enter to select from this list, or: • Enter the 4-character site number manually. If the site is not in table, the user will be taken to the 'Site Table Edit' screen to add the new site to the list. (Refer to Chapter 6, Maintain Tables and Files).
5.	Enter a 4-character scaler licence number.	• Select F4 to display the available scalers in the handheld (scaler table). Use the cursor keys and select Enter to select from this list, or: • Enter a 4-character scaler number manually. If the scaler number is not in table, the user will be taken to the "Scaler Table Edit" screen to add the new scaler to the list (refer to Chapter 6 – "Maintain Tables and Files").
6.	Enter the 4-digit Tally/Return number.	Enter the 4-digit Tally/Return number.
7.	Enter the parcel owner code (Optional).	• Select F4 to display the available parcel owners in the handheld (parcel owner table). Use the cursor keys and select Enter to select from this list, or: • Enter up to an 11-digit parcel owner number manually. If parcel owner is not in table, the user will be taken to the "Parcel Owner Table Edit" screen to add the new parcel owner to the list. (Refer to Chapter 6 – "Maintain Tables and Files").
8.	Enter Note/Comment (Optional).	Enter up to a 20-character alpha-numeric comment. This field prints as 'Notation' at the bottom of the FS 531 or FS 72.

	Task	Detail
9.	Select Enter to advance to the second set of header screens.	To advance to the second set of header screens select Enter.

The second header screen differs depending on if the user selected **piece scale** or **weight scale**:

- 10a to 14a are steps for Piece Scale, or
- 10b to 16b are steps for Weight Scale.

2.2.1 Entering a Piece Scale Summary Header

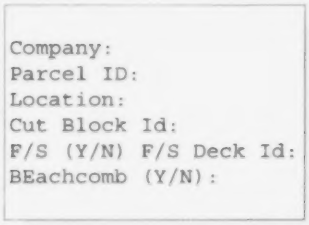


Figure 2.7 Example of a Piece Scale Summary Header.

	Task	Detail
10a.	Enter Company (Optional).	Enter up to a 20-character (alpha-numeric) company name. The contents of this field will appear on the FS 72.
11a.	Enter Parcel ID (Optional).	Enter up to a 20-character (alpha-numeric) Parcel ID. Prints as "Camp Boom Number" on the FS 72 and noted as "Parcel num" in SCS.

	Task	Detail
12a.	Enter Location (Optional).	Enter up to a 20-character (alpha-numeric) location. The contents of this field will not appear on reports and will not be uploaded to SCS.
13a.	Enter Cut Block ID	Enter up to a 10-character Cut Block ID.
14a.	F/S?	Enter "**Y**" (Yes) or "**N**" (No).
15a.	F/S Deck ID?	Enter a 1-character Deck ID number.

2.2.2 Entering a Weight Scale Header

```
Population:
Stratum:
Year:
Arrival #:
Block #:
Weigh SLip #:
Sample Weight:
```

Figure 2.8 Example of a Weight Scale SummaryHeader.

	Task	Detail
10b.	Enter population number.	Enter the 4-digit (numeric) population number.
11b.	Enter stratum number.	Enter the 2-digit (numeric) stratum number.
12b.	Enter year.	Enter the 2-digit cyclic year. It must be within 1 year of the current year.
13b.	Enter Arrival number (Optional).	Enter up to a 4-digit (numeric) Arrival number.
14b.	Enter Block number.	Enter up to a 3-digit (alpha numeric) Block number.

	Task	Detail
15b.	Enter Weigh Slip number.	Enter up to a 10-character (alpha-numeric) Weigh Slip number.
16b.	Enter weight in kg.	Enter up to a 6-digit (numeric) weight in kg. **Warning**: Bypassing this field with Enter will result in a "0" value for weight. (Maximum weight = 120,000 kg).

2.3 Enter Scale Parcel

The following procedure describes how to enter piece scale and weight scale parcel information for:

- Log detail data with individual log dimensions (see Section 2.3.1), and
- Summary data (see Section 2.3.2).

2.3.1 Enter Log Data

If "Scale Logs" was chosen at step 2 of Section 2.1, the log data enter screen is presented. If "Scale Summary" was chosen, go to Section 2.3.2.

> The log data entry screen will differ depending on gross or net scale selected on the header screen (Section 2.2, Step 3).

Gross Scale Screen

```
Mark:     Pt:          NMV:
Sp Len Top But Def Ld Td Bd G

     0   0   0        0  0  0

Firm:    % Gr:    %    1/    0
```

Net Scale Screen

```
Mark:        Pt:     NMV:
Sp Len Top But Def Gr Sort Rm

       0   0   0

Firm:    % Gr:    %    1/    0
```

Figure 2.9 Gross Scale Screen and Net Scale Screen.

> The following fields on the Log Data Entry Screen may be turned OFF. This gives the user the option to bypass any of these fields completely:
> Paint (Pt)
> No Mark Visible (NMV)
> Major Defect/Defect Code (Def)
> Grade (Gr)
> Sort/Desc (Srt)
> Remark (Rm)

The following fields may be set to default the contents of the previous log for each new log:

Species (Sp)
Length (Len)
Top (Top)
Butt (But)
Grade (Gr)
Sort/Desc (Srt)
Remark (Rm)

Some fields can be skipped and filled in later (length, top, butt, defect, and grade).

See Chapter 7, Settings for more information.

	Task	Detail
1.	Enter timber mark (**Mark**).	Enter up to a 6-character (alpha numeric) timber mark. Valid timber mark symbols are: • - for Bar (a dash) • ' for crescent (an apostrophe) • : for wavy line • < for triangle Select F4 if more than one timber mark has been entered in this parcel.

	Task	Detail
2.	Enter paint code (**Pt**).	Select F4 or enter a 2-character paint code. Valid Paint codes are: • **Blank** – no color chosen • **BA** – Black • **BL** – Blue • **GA** – Grey • **GR** - Green • **OR** - Orange
3.	Identify mark visibility (**NMV**)	Select F4 to select from the pick-list or enter: • **Blank** – mark is visible • **N** – No Mark Visible
4.	Enter species code (**Sp**).	• Enter a 2-character species code, or • Enter a 1-character Quick Species Code (refer to Chapter 6 – "Maintain Tables"). This field may be set to Repeat the species code from the previous log. (Refer to Chapter 7, - "Settings").
5.	Enter log length in dm (**Len**).	Enter a 3-digit log length in dm. If less than 100 dm use a zero for the first digit (e.g., 099).
6.	Enter top dimension in rads (**Top**).	Enter a 2-digit top rad dimension. If less than 10 rads, use a zero for the first digit (e.g., 09). If dimension is greater than 99 use '⇦' to get to a third character field (e.g., 100).
7.	Enter butt dimension in rads (**But**).	Enter a 2-digit butt rad dimension. If less than 10 rads, use a zero for the first digit (e.g., 09). If dimension is greater than 99 use ⇦ to get to a third character field (e.g., 100).

	Task	Detail
8.	Enter defect code (Optional) (**Def**).	Enter a 2-character defect code or select F4 to choose a value from the pick-list. Select ENTER to bypass. If a defect code is entered, the user may be taken to the deduction calculator screen. (Refer to Chapter 3 – "Deduction Calculator"). Valid Defect codes are: • **Blank** – no defect chosen • **BR** – Butt Rot • **BS** – Bark Seam • **CF** – Cat Face • **CK** – Conk • **CR** – Crook • **FD** – Fire Damage • **GO** – Goit • **HO** – Hole • **HR** – Heart Rot • **KN** – Knots • **MW** – Missing Wood • **PP** – Pitch Pockets • **PR** – Pocket Rot • **RC** – Ring Count • **RR** – Ring Rot • **RS** – Ring Shake • **SC** – Star Check • **SR** – Sap Rot • **ST** – Straight Check • **SU** – Sun Check • **SW** – Sweep • **TW** – Twist • **WS** – Water Shake

The fields LdTdBd in gross scale summarize what was entered in the deduction calculator. (Refer to Chapter 3 – "Deduction Calculator").

	Task	Detail
9.	Enter grade code (**Gr**).	Enter a 1-character grade code. **Note**: Enter a "2" for interior sawlog grade. The 2 will appear as a blank on FS 531 or FS 72.
10.	Enter sort code (**Sort**)	Enter a 3-character sort or description code. In gross scale this field appears in a separate window.

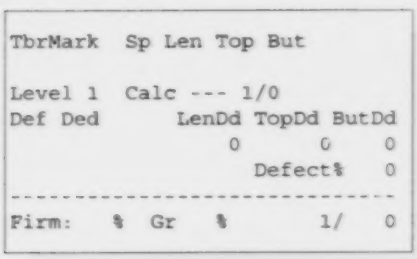


Figure 2.10 Grade Code.

	Task	Detail
11.	Enter a remark (**Rm**).	Enter up to 2 characters for a remark for the log.
12.	Repeat steps 4 through 10.	Repeat steps 4 through 11 for each log in the parcel.
13.	Select F3 to exit to the parcel header.	The screen will display "**working**" during the save action. The user will be prompted to complete any fields skipped.
14.	Select F3 to exit from header to Scale Menu.	

	Task	Detail
15.	Select F3 to exit to the Main Menu.	

Navigation within the Log Tally entry screen:

F2	Deduction Calculator (if turned on in Setup)
F3	Save and Exit parcel to Header Screen
F5	Setup
F6	Goto log and change mark. (Refer to Chapter 1 – "Function and Special Keys").
ESC	Exit parcel without saving (last entered log)

Fastpath keys

On the Log Data Entry Line a period (.) followed by the appropriate letter key will move the cursor to the specified field.

.M - Timber mark field (Mark)
.S - Species field (Sp)
.L - Length dimension field (Len)
.T - Top dimension field (Top)
.B - Butt dimension field (But)
.D - Defect code field (Def)
.G - Grade field (Gr)

These Fastpath keys will only work when the cursor is in the Sp, Len, Top, But, Def and Gr fields.

2.3.2 Enter Summary Data

If scale summary was chosen at step 2, Section 2.1 the Summary data entry screen is presented:

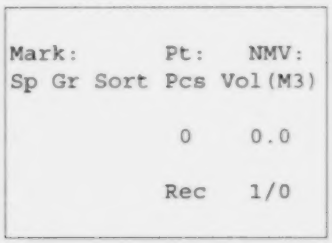


Figure 2.11 Summary data entry screen.

	Task	Detail
1.	Enter timber mark (**Mark**).	Enter up to a 6-character timber mark. Valid timber mark symbols are: • - for bar (a dash) • ' for crescent (an apostrophe) • : for wavy line • < for triangle Select F4 (pick-list) if more than one timber mark has been entered in this parcel.
2.	Enter paint code (**Pt**). (Optional)	Enter a 2-character paint code. This field is optional and may be turned off. (Refer to Chapter 7 – "Settings".
3.	Identify mark visibility (**NMV**) (Optional).	Enter ' ' (blank) if mark is visible or "**N**" for no mark visible. Field is optional and may be turned Off. (Refer to Chapter 7 – "Settings").

	Task	Detail
4.	Enter species code (**Sp**).	• Enter a 2-character species code or: • Enter a 1-character Quick Species Code (Refer to Chapter 6 - "Maintain Tables"). This field may be set to Repeat the species code from the previous log. (Refer to Chapter 7 – "Settings").
5.	Enter grade code (**Gr**).	Enter a 1-character grade code. Note: Enter a "2" for interior sawlog grade. This 2 will appear as a blank on FS 531 or FS 72.
6.	Enter sort or description code (**Sort**) (Optional).	Enter a 3-character sort of description code. This field may be set to Repeat the last sort/desc code entered or it may be turned Off. (Refer to Chapter 7 – "Settings").
7.	Enter number of pieces (**Pcs**).	Enter the number (up to 4 digits) of pieces for the species/grade combination entered.
8.	Enter volume (**Vol(M3)**).	Enter volume in cubic metres to 2 decimal places.
9.	Repeat steps 4 through 8.	Repeat steps 4 through 8 for each species/grade combination in this parcel.
10.	Select F3 to exit to summary header.	The screen will display "**working**" during the save action. The user will be prompted to complete any fields skipped.
11.	Select F3 to exit from the header to Scale Menu.	

Navigation within the Summary Scale Data Screen:

F3	Save and Exit parcel to Header Screen.
F5	Setup.
F6	Change mark. (Refer to Chapter 1 – "Function & Special Keys").
ESC	Exit parcel without saving (last entered species/grade).
M	Go to timber mark field from pieces and volume fields.

Deduction Calculator 3

Figure 3.1 Flowchart of Deduction Calculator procedure.

Procedure	This procedure allows the user to activate 2 levels of Deduction Calculators. The user may toggle between both calculators to enter multiple defects for any log in a parcel. • Level 2 calculator has 5 calculating deduction methods. • Level 1 calculator allows the user to enter an estimated or predetermined length or rad deduction. Both calculators are capable of making firmwood deductions or grade deductions based on defect dimensions. The user may set up the calculators in Setup/LogFuncs so that they may or may not be accessible. (Refer to Chapter 7 – "Settings" for selection of Deduction Calculators).
Menu	From the Parcel Tally screen (Gross Scale/Net Scale) (Section 2.3.1 in Chapter 2) to go to the deduction calculator screen: • Key in a defect code under the "**Ded**" header (e.g., "BR: for Butt Rot), or: • Select F2 (once or twice) when the log's gross dimensions are entered.

The following defect codes will allow for both firmwood deductions and grade calculations. Others allow for only grade calculations.

In the deduction calculator's codes are also accessible by selecting F4 (pick-list) from the following fields:

- (**Def**) Defect,
- (**Ded**) Deduction Type, or
- (**Meth**) Deduction Method.

Defect Code	Description	Firmwood/Grade Deduction
BR	Butt Rot	FG
BS	Bark Seam	FG
CF	Cat Face	FG
CK	Conk	FG
CR	Crook	G
FD	Fire damage	FG
GO	Goiter	FG
HO	Hole	FG
HR	Heart Rot	FG
KN	Knots	G
MW	Missing Wood	FG
PP	Pitch Pocket	G
PR	Pocket Rot	FG
RC	Ring Count	G
RR	Ring Rot	FG
RS	Ring Shake	G
SC	Star Check	G
SR	Sap rot	FG
ST	Straight Check	G
SU	Sun Check	G
SW	Sweep	G
TW	Twist	G
WS	Water shake	G

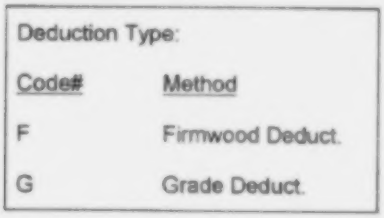


Figure 3.1a Deduction Type menu..

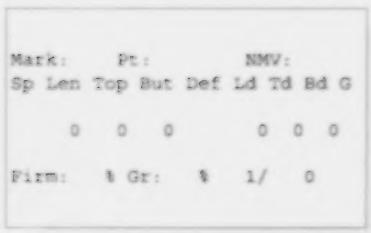
3.1 Enter Parcel Tally

To launch the Deduction Calculator, the user must be at the Parcel Tally entry screen as in figure 3.2 below (refer to Chapter 2 for more information).

The Deduction Calculator is available once the gross dimensions of the log are entered (e.g., Sp, Len, Top, & But).

> The Parcel Tally entry screen will differ depending on gross or net scale selected on the header screen (Section 2.2, Step 3).

Gross Scale Screen



Net Scale Screen

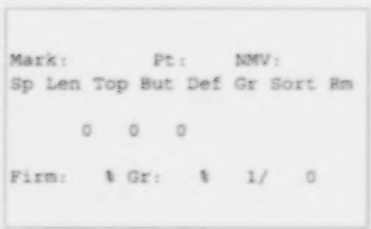


Figure 3.2 Gross Scale Screen and Net Scale Screen

	Task	Detail
1.	Enter a defect code (**Def**) or select F2.	To go to the deduction calculator; • Enter a 2-character defect code (**Def**). Once a defect code is entered, the user will be taken to the deduction calculator screen (if AutoCalc is set). (Refer to Chapter 7 – "Setup/LogFuncs"), or: • Select F2 on the log line after the gross dimensions for the log have been entered. **NOTE:** Depending on the AutoCalc settings, F2 may need to be selected twice to access the Deduction Calculator 2 as shown below. The Deduction Calculator 1 may come up if F2 is selected once (Refer to Chapter 7 – "Setup/LogFuncs").

3.2 Enter Defect in Level 2 Deduction Calculator

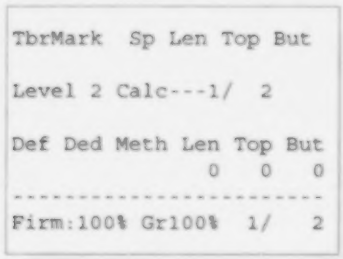


Figure 3.3 Defect in Level 2 Deduction Calculator.

There are 5 deduction methods for the Level 2 Calculator. The screen presented is dependent on the Deduction Calculation Method selected.

Deduction Methods

Code#	Method
1	Cylinder/Smalians
2	Cylinder within cylinder
3	Cone
4	Quadrilateral (box shape)
5	% Cylinder/Smalian-Wedge

To set the Deduction Calculator options, refer to Chapter 7 – "Setup / LogFuncs".

3.2.1 Deduction Method #1 (Cylinder/Smalians) for Firmwood (F) or Grade (G) Deduction Type

Calculations for a cylindrical deduction require length, top and butt dimensions. Below is an example of deduction method 1, calculating a Heart Rot defect.

Firmwood Deduction

```
TbrMark   Sp Len Top But
A12345    CE  50  10  20
Level 2 Calc---1/  2

Def Ded Meth Len Top But
HR  F    1    50   5   8
------------------------
Firm:81% Gr100%  1/   2
```

Grade Deduction

```
TbrMark   Sp Len Top But
A12345    CE  50  20  30
Level 2 Calc---1/  2

Def Ded Meth Len Top But
HR  G    1    50   7  10
------------------------
Firm:100% Gr96%  1/   2
```

Figure 3.4 Method 1 - Firmwood Deduction and Grade Deduction.

	Task	Detail
2.	Enter "'HR" for Defect code (**Def**).	In the Defect code field (**Def**) enter "HR" for a Heart Rot deduction or select F4 to select from the pick-list.
3.	Enter "F" or "G" for Deduction Type code (**Ded**).	In the Deduction Type field (**Ded**) enter: • "**F**" for Firmwood Deduction Type or: • "**G**" for Grade Deduction Type code.
4.	Enter "1" for Deduction Method code (**Meth**).	In the Deduction Method code field (**Meth**) enter "1" for Cylinder/Smalians deduction method.
5.	Enter defect length in dm (**Len**).	Enter up to a 3-digit defect length in dm.
6.	Enter defect top in rads (**Top**).	Enter a 2-digit defect top dimension in rads.

	Task	Detail
7.	Enter defect butt in rads (**But**).	Enter a 2-digit defect butt dimension in rads. **Note**: When the butt defect is entered, the computer will display the firmwood percentage (%) and advance to a new line to allow another defect to be entered.
8.	Select F3 or enter more defects.	• Select F3 to return to Parcel Tally entry screen or: • Repeat steps 2 through 8 to enter more defects (firmwood or grade deduction types) for this log.

3.2.2 Deduction Method #2 (Cylinder within cylinder) for Firmwood (F) or Grade (G) Deduction Types

Calculations for a cylindrical within a cylinder deduction require length, top and butt outside and inside dimensions. Below is an example of deduction method 2, calculating a Ring Rot defect:

Firmwood Deduction

```
TbrMark  Sp Len Top But
A12345   CE 150  20  30
Level 2 Calc---1/  2
              Top Butt
Def Ded Meth Len OuInOuIn  %
RR  F   2    50  2 1 3 1 100
--------------------
Firm:100% Gr: 96%        1/2
```

Grade Deduction

```
TbrMark  Sp Len Top But
A12345   CE 150  20  30
Level 2 Calc---1/  2
              Top Butt
Def Ded Meth Len OuInOuIn  %
RR  G   2    50  2 1 3 1 100
--------------------
Firm:100% Gr: 96%        1/2
```

Figure 3.5 Method 2 - Firmwood Deduction and Grade Deduction.

	Task	Detail
2.	Enter "RR" Defect code (**Def**).	In the Defect code field (**Def**), enter "RR" for a ring rot deduction.
3.	Enter "F" or "G" for Deduction Type (**Ded**).	In the Deduction Type field (**Ded**) enter: • "**F**" for Firmwood Deduction Type or: • "**G**" for Grade Deduction Type.
4.	Enter "2" for Deduction Method code (**Meth**).	In the Deduction Method code field (**Meth**) enter "2" for cylinder within cylinder defect rot code.
5.	Enter defect length in dm (**Len**).	Enter a 3-digit defect length in dm.
6.	Enter defect Top Inside and Outside in rads. (**Top - Ou/In**).	Enter a 2-digit defect top Outside and top Inside dimensions in rads.
7.	Enter defect Butt Inside and Outside in rads (**But - Ou/In**).	Enter a 2-digit defect butt Outside and butt Inside dimensions in rads. Note: When the butt defect is entered, the computer will display the firmwood percentage (%) and move to a new line to allow another defect to be entered.
8.	Select F3 or enter more defects.	• Select F3 to return to Parcel Tally entry screen or: • Repeat steps 2 through 8 to enter more defects (firmwood or grade deduction types) for this log.

3.2.3 Deduction Method #3 (Cone or Butt Rot) for Firmwood (F) or Grade (G) Deduction Types

Calculations for a cone deduction require length and butt dimensions. Below is an example of deduction Method 3, calculating a Butt Rot defect.

Firmwood Deduction

```
TbrMark  Sp Len Top But
A12345   SP 50   10  15
Level 2 Calc --- 1/  2

Def Ded Meth Len Top Butt
BR  F   3     22        8
--------------------
Firm: 99% Gr:100%   1/  2
```

Grade Deduction

```
TbrMark  Sp Len Top But
A12345   SP 50   10  15
Level 2 Calc --- 1/  2

Def Ded Meth Len Top Butt
BR  G   3     22       11
--------------------
Firm:100% Gr: 90%   1/  2
```

Figure 3.6 Method 3 - Firmwood Deduction and Grade Deduction.

	Task	Detail
2.	Enter "BR" for Defect code (**Def**).	In the Defect code field (**Def**) enter 'BR' for a Butt Rot deduction.
3.	Enter "F" or "G" for Deduction Type code (**Ded**).	In the Deduction Type field (**Ded**), enter: • "**F**" for Firmwood Deduction Type or: • "**G**" for Grade Deduction Type.
4.	Enter "3" for Deduction Method code (**Meth**).	In the Deduction Method code field (**Meth**) enter "3" for a Butt Rot defect.
5.	Enter defect length in dm (**Len**).	Enter a 3-digit defect length in dm.
6.	Enter defect butt in rads (**But**).	Enter a 2-digit defect butt dimension in rads. **Note**: When the butt defect is entered, the computer will display the firmwood percentage (%) and move to a new line to allow another defect to be entered.

	Task	Detail
7.	Select F3 or enter more defects.	• Select F3 to return to Parcel Tally entry screen or: • Repeat steps 2 through 7 to enter more defects (firmwood or grade deduction types) for this log.

3.2.4 Deduction Method #4 (Quadrilateral) for Firmwood (F) or Grade (G) Deduction Types

Quadrilateral calculation method deals with calculations that are a rectangle or square.

Calculations for quadrilateral deduction require length, top (width and height) and butt (width and height) dimensions. Below is an example of deduction method 4, calculating a Pocket Rot defect:

Firmwood Deduction

```
TbrMark Sp Len Top But
A12345  SP  50  10  15
Level 2 Calc --- 1/ 2

Def Ded Meth Len TW TH BW BH
PR  F   4     10  5  4  4  5
--------------------
Firm: 96% Gr:100%    1/   2
```

Grade Deduction

```
TbrMark Sp Len Top But
A12345  SP  50  10  15
Level 2 Calc --- 1/ 2

Def Ded Meth Len TW TH BW BH
PR  G   4     10  5  4  4  5
--------------------
Firm:100% Gr: 96%     1/  2
```

Figure 3.7 Method 4 - Firmwood Deduction and Grade Deduction.

	Task	Detail
2.	Enter "PR" for Defect code (**Def**).	In the Defect code field (**Def**), enter "PR" for a Pocket Rot deduction.
3.	Enter "F" or "G" for Type code (**Ded**).	In the Deduction Type field (**Ded**) enter: • "**F**" for Firmwood Deduction Type or: • "**G**" for Grade Deduction Type.
4.	Enter "4" for Deduction Method code (**Meth**).	In the Deduction Method code field (**Meth**) enter "4" for a Quadrilateral defect calculation.
5.	Enter defect length in dm (**Len**).	Enter a 3-digit defect length in dm.
6.	Enter defect top width and height in rads (**TW** - **TH**).	Enter a 2-digit defect for top width (**TW**) and top height (**TH**) dimension in rads.
7.	Enter defect butt width and height in rads (**BW** - **BH**).	Enter a 2-digit defect for bottom width (**BW**) and bottom height (**BH**) dimension in rads. Note: When the butt defect is entered, the computer will display the firmwood percentage (%) and move to a new line to allow another defect to be entered.
8.	Select F3 or enter more defects.	• Select F3 to return to Parcel Tally entry screen or: • Repeat steps 2 through 8 to enter more defects (firmwood or grade deduction types) for this log.

3.2.5 Deduction Method #5 (Percentage of Cylinder/Samalians - Wedge) for entering Firmwood (F) or Grade (G) Deduction Types

Calculations for a wedge deduction require length, top, butt dimensions as well as a percentage of the end of the log (e.g. pie shape). Below is an example of deduction method 5, calculating missing wood or fire damage type defect:

Firmwood Deduction

```
TbrMark Sp Len Top But
A12345  SP  68  10  15
Level 2 Calc --- 1/  2

Def Ded Meth Len Top Butt   %
MW  F   5     68   6    8 100
------------------------------
Firm: 72% Gr:100%        1/  2
```

Grade Deduction

```
TbrMark Sp Len Top But
A12345  SP  68  10  15
Level 2 Calc --- 1/  2

Def Ded Meth Len Top Butt   %
MW  G   5     68   6    8 100
------------------------------
Firm:100% Gr: 72%        1/  2
```

Figure 3.8 Method 5 - Firmwood and Grade Deduction screen.

	Task	Detail
1.	Enter "MW" as the Defect code (**Def**).	In the Defect code field (**Def**) enter "MW" for a missing wood deduction.
2.	Enter "F" or "G" for Type code (**Ded**).	In the Deduction Type field (**Ded**) enter: • "**F**" for Firmwood Deduction Type or: • "**G**" for Grade Deduction Type.
4.	Enter "5" for Deduction Method code (**Meth**).	In the Deduction Method code field (**Meth**) enter "5" for %Cylinder/Smalian-Wedge calculation method.
5.	Enter the defect length in dm (**Len**).	Enter up to a 3-digit defect length in dm.
6.	Enter the defect top in rads (**Top**).	Enter a 2-digit defect top dimension in rads.
7.	Enter defect butt in rads (**But**).	Enter a 2-digit defect butt dimension in rads.

	Task	Detail
8.	Select F3 or enter more defects.	• Select F3 to return to Parcel Tally entry screen or: • Repeat steps 2 through 8 to enter more defects (firmwood or grade deduction types) for this log.

3.3 Enter Defect in Level 1 Deduction Calculator

To set the Deduction Calculator options, see Chapter 7, Setup/LogFuncs.

Use the Level 1 Calculator:

- To enter deductions already estimated by the user (a length, top or butt deduction), or
- To indicate any defects entered in the Level 2 Calculator as a dimension deduction.

```
TbrMark Sp Len Top But
A12345  SP  68  10  15
Level 1 Calc --- 3/ 4
Def Ded    LenDd TopDd ButDd
MW  F          0     2     2
                   Defect % 28
------------------------------
Firm: 72% Gr:100%    1/    2
```

Figure 3.9 Deduction Calculator 1.

3.3.1 Estimated Defect Deductions for Firmwood (F) or Grade (G) Deduction Types

Level 1 calculations are deductions already estimated by the user and keyed into the calculator for comparison purposes on the printed report. Multiple length or radius deductions for firmwood or grade can be completed for each log. When a dimension deduction is entered, the current defect percentage is calculated based on the gross log. Below is an example of entering a dimension deduction in the Level 1 calculator.

Select F2 to go to the Level 2 Deduction Calculator from the Level 1 Calculator.

Firmwood Deduction

```
TbrMark Sp Len Top But
A12345  SP  68  10  15
Level 1 Calc --- 3/ 4
Def Ded    LenDd TopDd ButDd
MW  F          0     2     2
                  Defect % 28
------------------------------
Firm: 72% Gr:100%    1/    2
```

Grade Deduction

```
TbrMark Sp Len Top But
A12345  SP  68  10  15
Level 1 Calc --- 3/ 4
Def Ded    LenDd TopDd ButDd
MW  G         60     5     5

------------------------------
Firm:100% Gr: 87%       1/  2
```

Figure 3.10 Level 1 - Firmwood and Grade Deduction screen

	Task	Detail
1.	Enter "HR" for Defect code (**Def**).	In the Defect code field (**Def**), enter "HR" for a Heart Rot deduction or select an alternate defect type from the tables.
2.	Enter "F" or "G" for Type code (**Ded**).	In the Deduction Type field (**Ded**) enter: • "**F**" for Firmwood Deduction Type or: • "**G**" for Grade Deduction Type.
3.	Enter a length deduction in dm (**LenDd**) (Optional).	• Select Enter to bypass this field or: • Enter up to a 3-digit length in dm to be deducted from the log's gross length.
4.	Enter top radius deduction in rads (**TopDd**) (Optional).	• Press Enter to bypass this field or: • Enter a 2-digit top dimension in rads to be deducted from the log's gross top radius.
5.	Enter butt radius deduction in rads (**ButDd**) (Optional).	• Select Enter to bypass this field or: • Enter a 2-digit butt dimension in rads to be deducted from the log's gross butt radius. Note: When the butt dimension is entered (or bypassed), the computer will display the defect and firmwood percentages (%) and move to a new line to allow another defect to be entered.

	Task	Detail
6.	Select F3 or enter more defects.	• Select F3 to return to Parcel Tally entry screen or: • Repeat steps 1 through 6 to enter more defect dimension deductions (firmwood or grade) for this log.

3.4 Deduction Results on the Parcel Tally Screen

After exiting the deduction calculator(s) and returning to the Parcel Tally screen, the user may view the deduction results. The percentage of firmwood and grade remaining are displayed at the bottom of the screen. If Gross Scale is used, the dimension deductions will be summarized on the log line (will not appear on Net Scale). Now the user may enter a grade for the log.

```
Mark:A12345 Pt:BL  NMV:
Sp Len Top  But Def Ld Td Bd G

SP  68  10  15  BR  0  0  0

Firm:100% Gr: 87%     1/  2
```

Figure 3.11 Gross Scale Deduction Results.

> For net scale, the information entered into the deduction calculators will not be carried back to the parcel tally screen or printed on the reports. If there is a firmwood deduction, the net dimensions must be manually entered.

```
Mark:A12345 Pt:BL  NMV:
Sp Len Top  But Def Gr Sort Rm

SP 168  10   15  BR

Firm:100% Gr:100%     1/  2
```

Figure 3.12 Net Scale Deduction Results.

Site Inspection 4

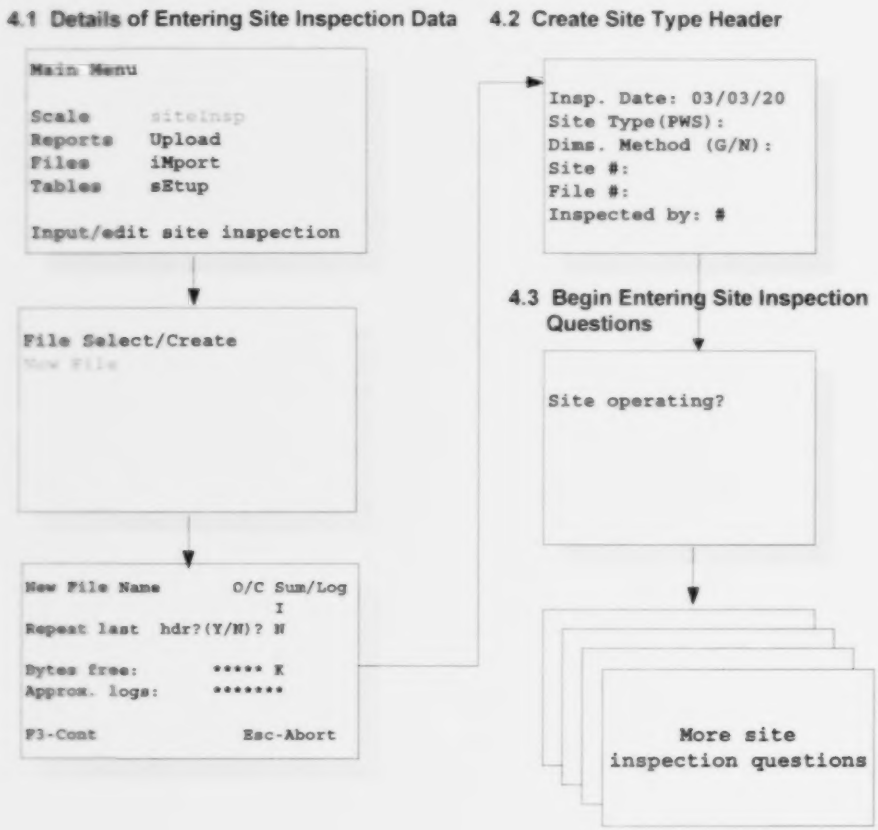


Figure 4.1 Flowchart of Site Inspection procedure.

Procedure	This procedure takes the user through the steps to enter a site inspection for piece scale, weight scale or special forest products site. Sections 4.1 and 4.2 use a series of menus and screens to describe the process required to create and enter a site inspection header. Section 4.3 documents the questions used to complete the site inspection report. Once entered, the user may print the site inspection (Refer to Chapter 5 "Reports for printing instructions") or upload it to SCS (Refer to CHECKS III Scaling Software Handbook or Section 3.6.3 in the SCS User Guide).
Menu	From the CHECKS III Main Menu: Select the "**site_Insp**" option.

4.1 Create a New Site Inspection (File)

The following procedure describes the process used to create a file to enter a site inspection for:

- Piece Scale Site,
- Weight Scale Site, and
- Special forest product site.

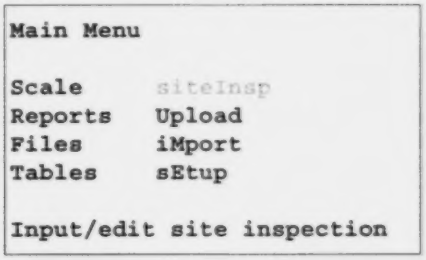


Figure 4.2 Main Menu - site_Insp option.

Navigation keys may be found at:

- The quick reference card,
- Chapter 1 – "Function and Special Keys", and
- At the end of this chapter.

	Task	Detail
1.	Select "**site_Insp**" from the main menu.	At the CHECKS III main menu, highlight "**site_Insp**" and select Enter (or select the 'I' key).

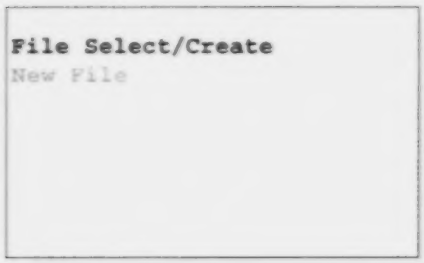


Figure 4.3 File Select/Create Menu.

	Task	Detail
2.	Select "**New File**" from the File Select/Create Screen.	At the File Select/Create, highlight "**New File**" and select Enter.

To view or edit an existing site inspection file, highlight the file name and press Enter.

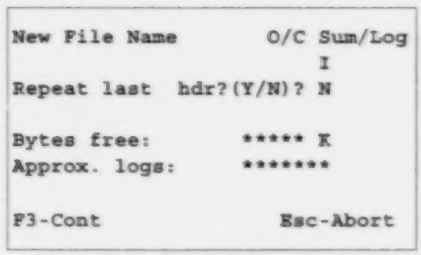


Figure 4.4 New File Name menu.

	Task	Detail
3.	Ensure adequate space is available to enter the site inspection.	Check the "Approx. logs" field. If 200 logs or less, exit this screen (ESC) and free up space by deleting existing log parcels or site inspections. (Refer to Chapter 6 – "Maintain Tables and Files").
4.	Enter a unique file name.	Name or number the site inspection to a maximum of 17 characters and press Enter. This cannot be a name already used in this handheld. The unique name will be used to identify the parcel for printing or editing.
5.	Select F3.	Select F3 to enter the site header information. NOTE: Ignore fields "O/C" – Original/Check and "Repeat Last hdr?" – these fields are used for Log Tallies and should be ignored when entering a site inspection.

4.2 Enter Site Header

The following procedure describes the process required to enter the site inspection header information.

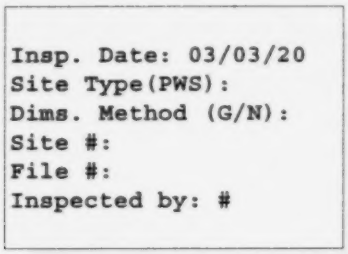


Figure 4.5 Example of a site inspection header.

	Task	Detail
6.	Change existing date (Optional).	Date is defaulted from the current computer system date. To change the date use '←' from the "Site Type" field and overwrite the existing values YY/MM/DD.
7.	Enter Scale type (**PWS**).	The user is focused in the Enter Scale Type field when the Site Header screen is presented. • "**P**" for piece scale • "**W**" for weight scale • "**S**" for special forest products. **Site Type** will allow the user to enter up to 3 characters (PWS) in the event all three types of sites are included in the site inspection.

	Task	Detail
8.	Enter the 4-character scale site number.	• Use F4 (pick-list) to view available sites in the handheld (site table). Use the cursor keys to select from the list and select Enter or: • Enter the 4-character site number manually. If site is not in table, the user will be taken to the 'Site Table Edit' screen to add the new site to the list. (Refer to Chapter 6 - "Maintain Tables and Files").
9.	Enter a unique file number for the site inspection.	Enter up to a 10-character file number.
10.	Enter the 4-character scaler licence number or Enter to bypass.	• Use F4 (pick-list) to view available scalers in the handheld (scaler table). Use the cursor keys and press Enter to select from this list or: • Enter the 4-character scaler number manually. If the scaler is not in table, the user will be taken to the 'Scaler Table Edit' screen to add new scaler to the list. (Refer to Chapter 6 – "Maintain Tables and Files"). • If the user does not have a scaler licence, press Enter to bypass and enter the user's name in the space provided (max. 20 characters).
11.	Select ENTER or F8.	To advance to the site inspection question screens, select Enter or F8.

4.3 Answer Site Inspection Questions

4.3.1 Site Inspection Questions

For navigation and other special keys, refer to the end of this chapter, Chapter 1 or the Quick Reference card.

The questions asked are dependent on the Scale Site type chosen in the Site Header screen (piece scale, weight scale, or special forest products).

> Question Detail (Optional)
>
> For most questions, the user may enter detail information (up to 4 lines of 20 characters) by selecting F8 for the question. For any non-compliant answers, F8 is automatic - allowing the scaler to enter details.

For most questions:

- Enter Y or N and select Enter,
- Enter Y or N and select F8 (Details/comments),
- To bypass a question select SPACE then Enter, or
- Non-compliance answers will automatically advance the scaler to the detail screen.

	Question	Detail	P = Piece W = Weight S = Special Forest Product
1.	Site operating?	If 'N', add comments in space provided.	P/W/S
2.	Scaler on site? Authorized?	This question has 1 additional question: 'Y' will bring up 'Authorized?' (Y/N). If 'N', add comments in space provided.	P/W/S
3.	Unauthorized person performing scaling duties?	If 'Y', add comments in space provided.	P/W/S
4.	Last scaled parcel retained for check scaling?	If 'N', add comments in space provided.	P/W/S
5.	All scaled timber marked to signify scaling status as required?	If 'N', add comments in space provided.	P/W/S
6.	Required scale data on site? Completed correctly? Scale data submitted as required?	This question has 2 additional questions: If 'N', add comments in space provided.	P/W/S
7.	Production ledger/site diary current?	If 'N', add comments in space provided.	P/W/S
8.	Logs spread properly for scaling?	If 'N', add comments in space provided.	P/W/S
9.	Previously scaled timber being delivered to this site? From where?	If 'Y', will bring up a second question. This second question has space for 1 line of up to 20 characters.	P/W/S
10.	Scaled timber being removed from this site? To where?	If 'Y', will bring up a second question. This second question has space for 1 line of up to 20 characters.	P/W/S
11.	Timber marking requirements being met?	If 'N', add comments in space provided.	P/W/S

	Question	Detail	P = Piece W = Weight S = Special Forest Product
12.	Scaling area free of scaled chunks and pieces?	If 'N', add comments in space provided.	P/W/S
13.	Check scale done? Reference #:	If 'Y', will bring up a second question. This second question has space for up to 8 characters.	P/W/S
14.	Unscaled timber on site? Estimated volume: Scaling of loads being kept current?	If 'Y', will bring up a second question. This second question has space for 1 line of up to 20 characters.	P/W/S
15.	Section tests done regularly and documented?	If "N", add comments in space provided.	W
16.	Scale platform free and clear?	If "N", add comments in space provided.	W
17.	Loads being stratified correctly?	If "N", add comments in space provided.	W
18.	Approved scaling procedures being followed?	If 'N', add comments in space provided.	P/W/S
19.	All loads being numbered upon arrival?	If 'N', add comments in space provided.	P/W/S
20.	Logs bucked as required/approved?	If 'N', add comments in space provided.	P/W
21.	Unauthorized decking of unscaled timber?	If 'Y', add comments in space provided.	P/W/S
22.	Mixing of scaled and unscaled timber?	If 'Y', add comments in space provided.	P/W/S
23.	Loads flagged/tagged as required?	If 'N', add comments in space provided.	P/W/S
24.	Samples cancelled without authorization?	If 'Y', add comments in space provided.	W/S

	Question	Detail	P = Piece W = Weight S = Special Forest Product
25.	Site operating on emergency procedures? When did it start? How many loads?	If 'Y', will bring up 2 additional questions. The second question has space for 15 characters. The third question has space for 8 characters.	W/S
26.	All timber designated to be scaled at this site?	If 'N' add comments in space provided.	P/W/S
27.	Sample ledger current?	If 'N', add comments in space provided.	W/S
28.	Sample tally balance with random selector?	If 'N', add comments in space provided.	W/S
29.	Stratum plan print-out correct?	If 'N', add comments in space provided.	W/S
30.	Area designated for scaling being used for other activities?	If 'Y', add comments in space provided.	P/W/S
31.	Authorized/approved scaling computer systems?	If 'N', add comments in space provided.	P/W/S
32.	In compliance with all authorization conditions?	If 'N', add comments in space provided.	P/W/S
33.	Other documents/ instructions issued?	If 'Y', add comments in space provided.	P/W/S
34.	List of Timber Marks on site?	If 'N', add comments in space provided.	P/W/S
35.	Final Remarks?	If 'Y', add comments in space provided.	P/W/S
36.	Exit	Select to return to the main menu.	

Navigation within the Site Inspection Screens:

ESC Exit (Site Inspection Header, Question or Detail) without saving.

Save and Exit (Site Inspection Header, Question or Detail).

Setup.

Printing Reports 5

5.1 Printing Reports

Figure 5.1 Flowchart showing the procedure for printing reports.

Procedure	This chapter describes the procedure to print reports for: • Detail log tally - piece scale FS 36, 244, 416, and weight scale FS 239 (Section 5.1) • Check Scale Comparison (Section 5.2) • Summary FS 72, 531 (Section 5.3) • Site Inspection (Section 5.4)
Menu	From the CHECKS III Main Menu: • At the CHECKS III Main Menu, highlight "**Reports**" and select Enter (or select the "**R**" key).

Before proceeding, ensure the handheld is connected to the printer. (Refer to Chapter 8 – "Husky FS/2 and FS/GS" for details).

Navigation keys can be found at:

- The quick reference card,
- Chapter 1 – "Function and Special Keys", and
- At the end of this chapter.

5.2 Printing Detail Log Listing Reports

The following procedures describe how to print detail log listing reports for:

- Piece scale (FS 36, 244, 416), and
- Weight scale (FS 239).

This report is a detail log listing (optional with defects) for a check scale parcel or an original scale tally.

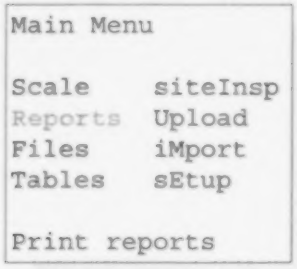


Figure 5.2 Main Menu.

	Task	Detail
1.	Select "**Reports**" from Main Menu.	At the CHECKS III Main Menu, highlight "**Reports**" and select Enter (or select the "**R**" key).

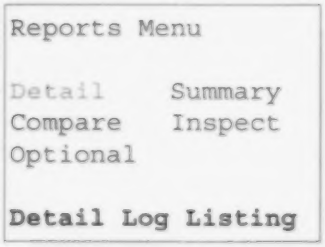


Figure 5.3 Reports Menu.

	Task	Detail
2.	Select "**Detail**" from the Reports Menu.	At the Reports Menu, highlight "**Detail**" and select Enter (or select the "**D**" key). NOTE: If log files are not found, CHECKS will not advance to the next screen.

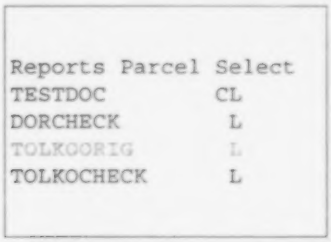


Figure 5.4 Reports Parcel Select Menu.

	Task	Detail
3.	Select a parcel for printing from the "**Reports Parcel Select**" screen.	At the "**Reports Parcel Select**" screen, use the ⇧/⇩ cursor keys to highlight a parcel for printing and select Enter.

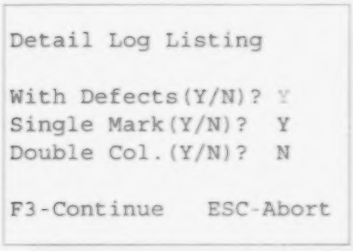


Figure 5.5 Detail Log Listing Menu.

	Task	Detail
4.	If required, change the options first, then select F3 to print report from the "**Detail Log** Listing" screen.	At the "**Detail Log Listing**" screen, if the yes/no default options are correct, select F3 to print report, or change the default options manually to the desired selections and select F3. "**With Defects**" • Prints log defect information from the deduction calculator (if the scaler has entered defects). "**Single Mark**" • (**Y**) Prints only the first log's timber mark (leaving the mark field blank for the remainder of the report) or: • (**N**) Prints the mark for each log. "**Double Column**" • (**N**) Prints a single column of logs on each page (up to 37 logs per page) or: • (**Y**) Prints 2 columns of logs on each page (up to 74 logs per page) **NOTE:** When F3 is selected, the screen will display "PRINTING.....". When the output print is complete, the user will be returned to the Reports Menu screen.

5.3 Printing Comparison Reports

The following procedure describes how to print a comparison report for a piece scale or a weight scale check scale.

The comparison may be between log-log, log-summary, or summary-summary parcels.

The report is a comparison of the original scale to the check scale. It shows the percentage differences for pieces, lengths, tops, butts, volume and value.

	Task	Detail
1.	Select "**Reports**" from Main Menu.	At the CHECKS III Main Menu, highlight "**Reports**" and select Enter (or select the "**R**" key).

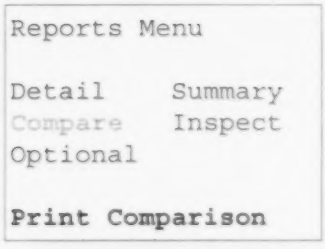


Figure 5.6 Reports Menu.

	Task	Detail
2.	Select "**Compare**" from Reports Menu.	At the Reports Menu, highlight "**Compare**" and select Enter (or select the "**C**" key). NOTE: If log or summary files are not found, CHECKS III will not advance to the next screen.

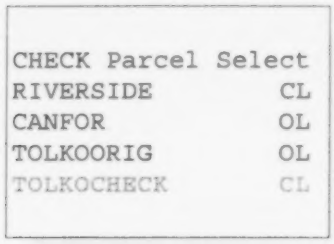


Figure 5.7 Check Parcel Select Menu.

	Task	Detail
3.	From the "**CHECK Parcel Select**" screen, select the appropriate check scale parcel.	At the "**CHECK Parcel** Select" screen, use the ⇧/⇩ cursor keys to highlight the check scale parcel for comparison and select Enter. **NOTE**: The "**OL**" or "**CL**" shown on the right-hand side of the screen identifies the file as a Original Log or Check Scale Log parcel.

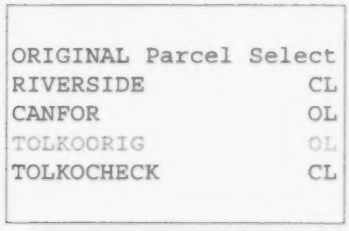


Figure 5.8 Original Parcel Select Menu.

	Task	Detail
4.	From the "**ORIGINAL Parcel Select**" screen, select the appropriate original scale parcel.	At the "**ORIGINAL Parcel Select**" screen, use the ⇧/⇩ cursor keys to highlight the original scale parcel for comparison and select Enter. **NOTES:** The user may select a Summary parcel as the original scale to compare to the check scale. The "**OL**" or "**CL**" shown on the right-hand side of the screen identifies the file as a Original Log or Check Log summary parcel.

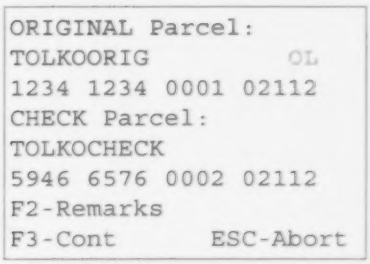


Figure 5.9 Comparison Confirmation Screen.

	Task	Detail
5.	Select F3.	The confirmation screen shows the parcels selected for comparison. If the parcels are correct, select F3 to proceed. If incorrect, select **ESC** to return to the Reports Menu and start again.

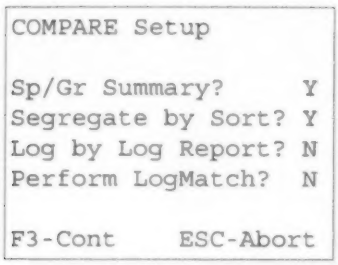
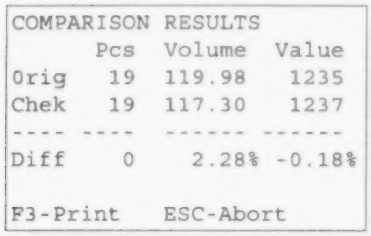


Figure 5.10 Compare Setup menu.

	Task	Detail
6.	In the "**COMPARE SETUP**" screen, if changes are required, change the options **first**. Select F3 to continue.	At the "**COMPARE SETUP**" screen: • If the yes/no default options are correct, select F3 to continue or: • Change the default options manually to the desired option and select F3. **NOTE**: The "Comparison of Scale Against Check - Summary Report" will always be printed showing the basic comparison results. • "**Sp/Gr Summary**" prints an additional report showing just species/grade/volume/pieces comparison results. • "'**Segregate by Sort**" prints the 'Comparison of Scale Against Check - Summary Report' broken down by sort as well as species/grade. • "**Log by Log Report**" prints the comparison showing the dimensions of each original log with each check log. If one or both comparison files is a Summary, this report will not print. • "**Perform LogMatch**" If "Y" is selected, the user is advanced to the **LOGMATCH FILESEL** screen. This allows re-sequencing of the check log parcel in order to match the original parcel for the "Log by Log Report". After selecting F3, the screen will display "working" and the comparison results will be displayed.



```
COMPARISON RESULTS
      Pcs  Volume  Value
Orig   19  119.98   1235
Chek   19  117.30   1237
---- ----  ------ ------
Diff    0    2.28% -0.18%

F3-Print   ESC-Abort
```

Figure 5.11 Comparison Results menu.

	Task	Detail
7.	From the "**COMPARISON RESULTS**" screen, select F3 to continue or ESC to abort.	At the "**COMPARISON RESULTS**" screen: • If the information is correct, select F3 to print the comparison report. • If the information is incorrect (for example, incorrect parcels), press **ESC** to return to the Reports Menu and start again. After selecting F3, the computer will display the sequence "Printing" then "Working" up to 3 times (for the 3 different comparison reports).

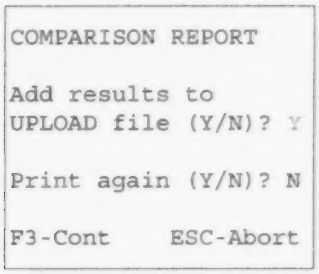


Figure 5.12 Comparison Report menu.

	Task	Detail
8.	From the "**COMPARISON REPORT**" screen, select F3 to automatically add the comparison results to the UPLOAD file.	• Select F3 to automatically add the comparison results to the UPLOAD file to be UPLOADed to SCS and HBS later (Refer to CHECKS III Scaling Software Handbook or Section 3.5.3 in the SCS User Guide). • If not (for example, a bad comparison or already uploaded), type "**N**" and select F3. • To print a duplicate report (for example, to leave a copy at the scale site), enter "**Y**" at "Print again" and select F3.

5.4 Printing Summary (FS 72 and FS 531) Reports

The following procedure describes how to print summary (FS 531/FS 72) reports for:

- A piece scale (steps 1 to 9), and
- A weight scale (steps 1 to 3).

from a parcel entered as a detailed log tally or a summary of scale.

The summary of an original scale or a check scale calculates and prints the total number of pieces and volume by species and grade for the parcel scaled. This information may originate from a parcel entered as a log tally or a summary.

	Task	Detail
1.	Select "**Reports**" from Main Menu.	From the CHECKS III main menu, highlight "**Reports**" and select Enter (or select the "**R**" key).

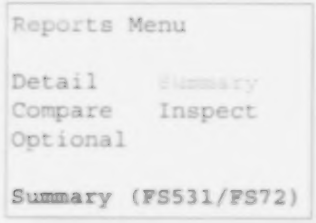


Figure 5.13 Reports Menu.

	Task	Detail
2.	Select "**Summary**" from Reports Menu.	From the Reports Menu, highlight "**Summary**" and select Enter (or select the "**S**" key.) **NOTE**: If log or summary files are not found, CHECKS will not advance to the next screen.

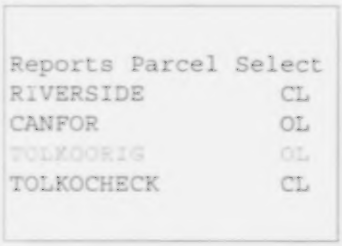


Figure 5.14 Reports Parcel Select Menu.

	Task	Detail
3.	Select the parcel to be summarized from the "**Reports Parcel Select**" screen.	From the "**Reports Parcel Select**" screen, use the ⇧/⇩ cursor keys to highlight the parcel to be summarized and select Enter. • For a weight scale summary (**FS 531**), the screen will display "working", then the summary will be printed and the screen will return to the Reports Menu. • For a piece scale summary (**FS 72**), a set of questions will be displayed on a second screen (see Figure 5.15).

The following procedure describes the process required to print a FS 72 Summary.

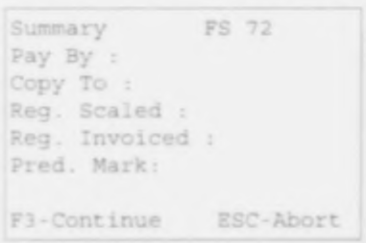


Figure 5.15 Summary FS 72 menu.

	Task	Detail
4.	Enter a "**Pay By**" code number (Optional).	Optional: enter a 5-digit "**Pay By**" payable code number. Use F4 (pick-list) to access the Client Table. Name and address code for the client to receive the *original* invoice.
5.	Enter "**Copy To**" code number. (Optional).	Optional: enter a 5-digit "**Copy To**" code number. Use F4 (pick-list) to access the Client Table. Name and address code for the client who should receive a *copy* of the invoice.
6.	Enter "**Reg. Scaled**" number.	Enter a 1 digit "**Reg. Scaled**" Region Scaled number to indicate *where the scale was performed*: • Region code **1** - Northern Interior Forest Region Prince George. • Region code **2** - Southern Interior Forest Region Kamloops. • Region code **3** - Coast Forest Region Nanaimo]).
7.	Enter "**Reg.** Invoiced" number (Optional).	(Optional): Enter a 1 digit "**Reg. Invoiced**" Region Invoiced number to indicate where the timber *originated*: • Region code **1** - Northern Interior Forest Region Prince George • Region code **2** - Southern Interior Forest Region Kamloops. NOTE: Vancouver Region will leave this field **blank**.
8.	Enter "**Pred. Mark**". (Optional).	Optional. Enter up to a 6-digit "**Pred. Mark**" timber mark. Region specific (e.g. Waste, bcomb1, bcomb2, and bcomb3).

9.	Select F3.	Select F3 to print the summary report and return to the Reports Menu screen.

5.5 Printing Inspection Reports

The following procedure describes the process required to print a site inspection report for a piece, weight scale or special forest products site.

This report prints all the questions answered for a site inspection.

	Task	Detail
1.	Select "**Reports**" from Main Menu.	From the CHECKS III Main Menu, highlight "**Reports**" and select Enter (or select the "**R**" key).

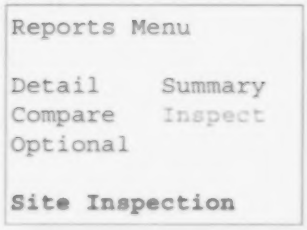


Figure 5.16 Reports Menu.

	Task	Detail
2.	Select "**Inspect**" from Reports Menu.	From the Reports Menu, highlight "**Inspect**" and select Enter (or select the '**I**' key). **NOTE**: If site inspection details are not found, CHECKS will not advance to the next screen.

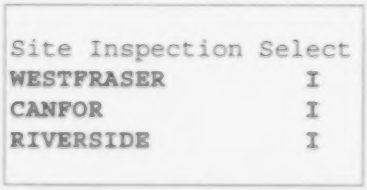


Figure 5.17 Site Inspection Select menu.

	Task	Detail
3.	Select a site inspection for printing from the "**Site Inspection Select**" screen.	From the "**Site Inspection Select**" screen, use the ⇧/⇩ cursor keys to highlight a site inspection for printing and select Enter to print the report and return to the Reports Menu screen.

Maintain Tables and Files 6

6.1 Maintain Tables

Figure 6.1a Flowchart showing the procedure to maintain tables.

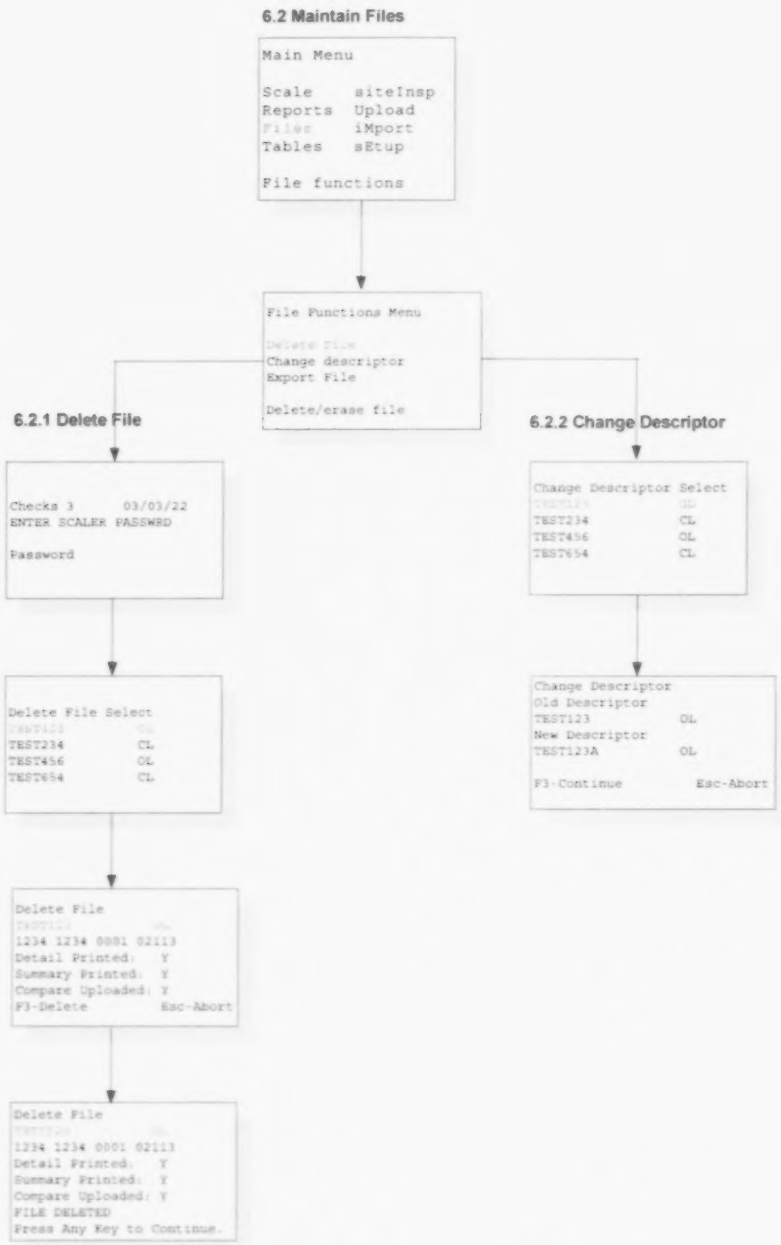


Figure 6.1b Flowchart showing the procedure to maintain files.

Procedure	This chapter describes procedures to maintain the following tables: • Scalers • Quick species • Client/parcel owner • Sites • Values Additionally, this chapter describes procedures to maintain/manage files in CHECKS III: • Delete file • Change file descriptor (re-name) Tables may be maintained through the Table Menu. Some tables may be updated from the Header Entry screens (if a value is entered that does not exist in the corresponding table).
Menu	From the CHECKS III main menu: • Select the "**Tables**" option (refer to Section 6.1) or: • Select the "**Files**" option (to maintain files - refer to section 6.2).
Tips	Values in all tables may be deleted by selecting F10 (Delete) or by over-writing the existing value. The Timber Mark Table is an automated table and is not accessible from the Table Menu. Each parcel has a unique Timber Mark Table. When a Mark is added to a parcel, it is automatically added to that parcel's Timber Mark table.

6.2 Maintain Tables

From the Tables Menu, the user may maintain the Scalers, Quick Species, Client, Sites and Values tables.

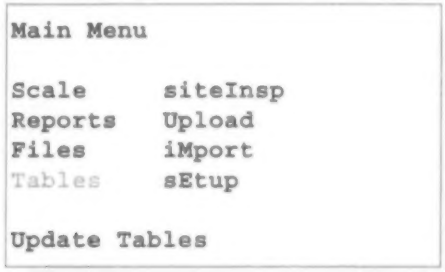


Figure 6.2 Checks III Main Menu – Tables option.

	Task	Detail
1.	Select "**Tables**" from Main Menu.	From the CHECKS III main menu, highlight "**Tables**" and select Enter (or select the "**T**" key).

6.3 Maintain Scalers Table

The Scaler Table may be maintained from:

- The Table Menu (Section 6.1.1.1), or
- The Header Entry screen (Section 6.1.1.2).

When a Scaler License Number is required in a header screen, the user may access the scaler list selecting F4 (pick-list). If the Scalers Table has been updated, the user may associate the scaler's given name with his/her Scaler Number. On some reports, the scaler's name from the table will be printed along with the Scaler Number. However, only the scaler's number is uploaded to SCS and HBS.

> The Scaler Table may contain up to 150 scalers.
> A scaler's number cannot be duplicated in the table. If a scaler's number is duplicated in the table, the warning message is returned to the user when attempting to exit the table. The user must locate and correct the duplication before proceeding (scroll through the sorted list to find the duplicate entry).

6.3.1 Maintain Scaler Table from Table Menu

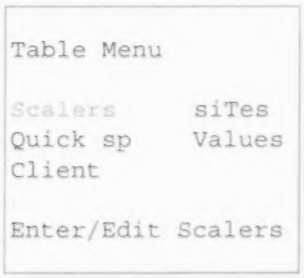


Figure 6.3 Table Menu – Scalers option.

	Task	Detail
2.	Select "**Scalers**" from the Table Menu.	At the Table Menu, highlight "**Scalers**" and select Enter (or select the "**S**" key).

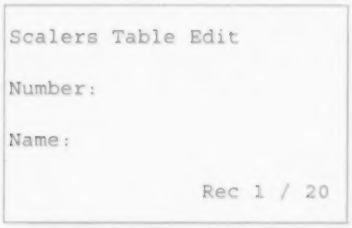


Figure 6.4 Scalers Table Edit menu.

	Task	Detail
3.	Enter a Scaler number.	From the **Scalers Table Edit** Screen, page down to the bottom of table (or use F9 Insert to create a new blank record). Enter a 4-character Scaler number.
4.	Enter a scaler name.	Enter a scaler's name (up to a maximum of 20 characters) and select Enter.
5.	Select F3 or enter more scalers.	Select F3 to save and exit to Table Menu, or repeat steps 3 and 4 to enter more scalers.

6.3.2 Maintain Scalers Table from the Header Screens

The Scaler Table may be maintained from a Log Tally header, Summary header or Site Inspection header screen. If a value entered at the header screen is not contained in the table, the following prompt will appear:

```
03/03/21 Type(P/W): P
Scale Method:(G/N): G
Scale Site#: 1234
SCaler#: 5678 Return#: 0002
Asst.Scaler#:
---------------------------
Scaler is not in the Table.
Add it to the Table (Y/N)?
```

Figure 6.5 Add Scaler from Header screen.

	Task	Detail
1.	Select "**Y**" to go to Table Edit screen, or "**N**" to re-enter Scaler Number.	If the user enters a Scaler Number in the Header screen that does not exist in the Scalers Table, a pop-up screen appears to prompt the user to add the Scaler to the table. Select: • "**Y**" - will bring up the Scaler Table Edit screen (Refer to steps 3 and 4 of Section 6.2.1). Selecting F3 from Table Edit screen will return the user to the Header screen. • "**N**" - will return the user to the Scaler # field in the header screen.

6.3.3 Maintain Quick Species Table

The Quick Species Table allows the user to enter a 1-digit code rather than having to enter the 2-character Species Code in Log Tally or Summary Data Entry screens. The user may enter 10 (keypad 0 - 9) of the most commonly used species codes in the Quick Species Table.

The Quick Species Table is accessed only from the Tables Menu:

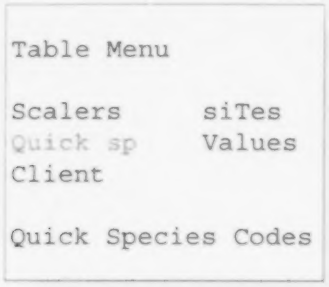


Figure 6.6 Table Menu - Quick Species option.

	Task	Detail
1.	Select "**Quick sp**" from the Table Menu.	From the Table Menu, highlight "**Quick_sp**" and select Enter (or select the "**Q**" key).

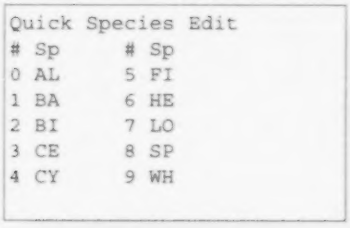


Figure 6.7 Checks Quick Species Edit menu.

	Task	Detail
2.	Enter a Species in the Quick Species Edit screen.	For each number in the **Quick Species Edit** screen, enter a 2-character species code. This species code will be placed in the Sp field in the Log or Summary screens when this number key is selected. The user may overwrite existing Species codes for each number or delete using SPACE or DEL. Species codes are optional in this table - some values may be left blank.
3.	Select F3.	Select F3 to save and exit to Table Menu.

6.3.4 Maintain Client (Owner) Table

Maintaining and using this table is optional.

The Client Table may be maintained from:

- The Table Menu (Section 6.1.3.1), and
- A Header entry screen (Section 6.1.3.2).

The Client Table may be accessed by:

- Selecting F4 (pick-list) from the header screens, and
- From the FS 72 Summary Report (print set-up) where "Parcel Owner/Payable By" may be selected.

This functionality allows the user to associate the owner's name to the Parcel Owner number and Payable By code.

6.3.5 Maintain Client Table from Table Menu

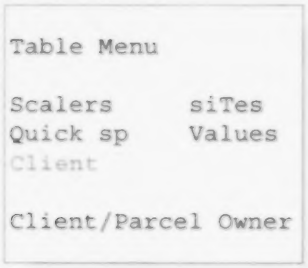


Figure 6.8 Table Menu – Client option.

	Task	Detail
1.	Select "**Client**" from the Table Menu.	From the Table Menu, highlight "**Client**" and select Enter (or select the "**C**" key).

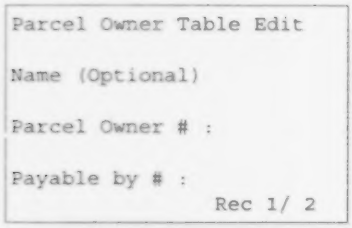


Figure 6.9 Parcel Owner Table Edit screen.

	Task	Detail
2.	Enter a Parcel Owner Name. (Optional).	From the "**Parcel Owner Table Edit**" screen, page down to the bottom of the table or select F9 (insert) to create a new blank record. Enter up to a 20-character Parcel Owner name (optional).
3.	Enter a Parcel Owner Number.	Enter up to an 11-character Parcel Owner Number.
4.	Enter Payable by number.	Enter a 5-character Payable by number.
5.	Select F3 or enter more Client names.	Select F3 to save and exit to Table Menu or repeat steps 2 to 4 to enter more Client names.

6.3.6 Maintain Client Table from the Header Entry Screens

The Client Table may be maintained from a Log or Summary Header screen. If a value is entered at the header screen and not contained in the table, the following prompt will appear:

```
03/03/21 Type(P/W): P
Scale Method:(G/N): G
Scale Site#: 1234
SCaler#: 5678 Return#: 0002
Asst.Scaler#:
--------------------------
Owner is not in the Table.
Add it to the Table (Y/N)?
```

Figure 6.10 Log or Summary Header screen prompt.

	Task	Detail
1.	Select "**Y**" to go to Table Edit screen, or "**N**" to re-enter Client Number.	If the user enters a Client Number that does not exist in the Client Table, a pop-up screen appears to prompt the user to add the Client Number to the table. Select: • "**Y**" - will bring up the Client Table Edit screen (Refer to steps 2 and 4 of Section 6.4.1). Select F3 from the Table Edit screen to return to the Header screen. • "**N**" - will return the user to the Parcel Owner field in the header screen.

6.3.7 Maintain Sites Table

The Site Table may be maintained from:

- Table Menu (Section 6.1.4.1). and
- Header Entry screen (Section 6.1.4.2).

The Site Table may be accessed by selecting F4 (pick-list) in the header screen a Site Number is required. This functionality allows the user to associate a Site Name to the Site Number. On some reports, the name from the table will be printed along with the Site Number. However, only the Site Number is uploaded to SCS and HBS.

> The Site Table may contain up to a maximum of 150 sites.

6.3.8 Maintain Site Table from Table Menu

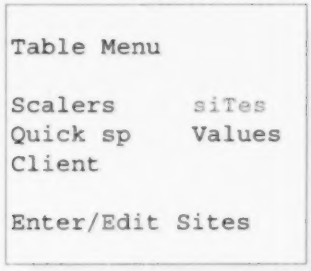


Figure 6.11 Table Menu – siTes Option

	Task	Detail
1.	Select "**siTes**" from the Table Menu.	From the Table Menu, highlight "**siTes**" and select Enter (or select the "**T**" key).

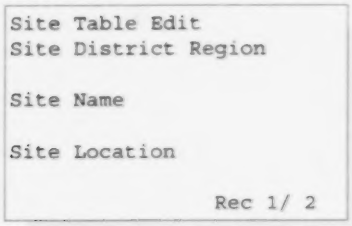


Figure 6.12 Site Table Edit menu.

	Task	Detail
2.	Enter a Site number.	From the "**Site Table Edit**" Screen page down to the bottom of the table or select F9 (Insert) to create a new blank record. Enter up to a 4-character Site Number.
3.	Enter a District and Region Code or select F4.	Use F4 to select a District/Region code or: • Enter a valid 2-character District Code (e. g. PG, Prince George) and: • Enter a valid 2-character Region Code (e. g. NO, Northern Interior Forest Region).
4.	Enter Site Name.	Enter up to a 20-character Site Name.
5.	Enter Site Location (Optional).	Enter up to a 20-character Site Location (Optional).
6.	Select F3 or enter more sites.	Select F3 to save and exit to Table Menu, or repeat steps 3 through 6 to enter more sites.

6.3.9 Maintain Site Table from the Header Entry Screens

The Site Table may be maintained from a Log Tally or Summary Header screen. If a value is entered in the header screen that does not exist in the Site Table, the following prompt will appear:

```
03/03/21 Type(P/W): P
Scale Method:(G/N): G
Scale Site#: 1234
SCaler#: 5678 Return#: 0002
Asst.Scaler#:
--------------------------
Site is not in the Table.
Add it to the Table (Y/N)?
```

Figure 6.13 Missing Scale Site Number.

	Task	Detail
1.	Select "**Y**" to advance to the Table Edit screen, or "**N**" to re-enter the Site Number.	If the user enters a Site Number in the Header screen that does not exist in the Site Table, a pop-up screen appears to prompt the user to add the Site Number to the table. Select: • "**Y**" - will bring up the Site Table Edit screen (Refer to steps 3 through 6 of Section 6.5.1). Select F3 from the Table Edit screen to return to the Header screen. • "**N**" - will return to the user to the Site # field in the header screen.

6.3.10 Maintain Value Table

The Value Table may only be accessed from the Tables Menu. This functionality allows the user to assign values to Species/Grade combinations. These values will appear in the comparison report.

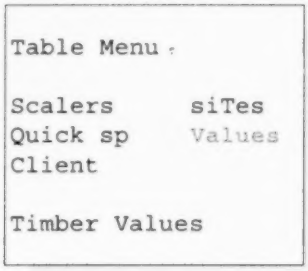


Figure 6.14 Table Menu – Values Option.

	Task	Detail
1.	Select "**Values**" from the Table Menu.	From the Table Menu, highlight "**Values**" and select Enter (or select the "**V**" key).

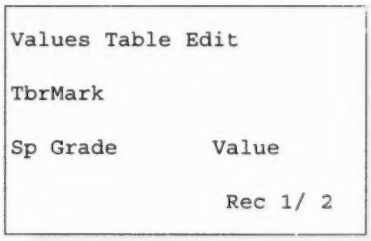


Figure 6.15 Values Table.

	Task	Detail
2.	Enter a Timber Mark (Optional).	From the "**Values Table Edit**" screen, page down to the bottom of the table or use F9 (insert) to create a new blank record and enter up to a 6-character Timber Mark (Optional). **RECOMMENDATION**: leave the Timber Mark blank. If the Timber Mark is blank, all values entered will apply to all parcels and not just to a specific Timber Mark.
3.	Enter species.	Enter a 2-character species code.
4.	Enter grade.	Enter a 1-character grade code. • Valid Interior Grade codes are: 2, 3, 4, 5,6, Z where 2=Sawlog. • Valid Coastal Grade codes are: B, C, D, E, F, G, H, I J, K, L, M, U, X, Y, Z and "Blank Space".
5.	Enter Value.	Enter up to a 7-digit number (including decimal point) for the species/grade entered. (e. g. 9999.99).
6.	Select F3 or enter more values.	Select F3 to save and exit to the Table Menu or repeat steps 1 through 5 to enter more values.

6.4 Maintain Files

From the Files Menu, the user may delete or rename Log Tally, Summary or Site Inspection files.

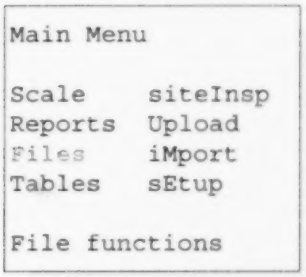


Figure 6.16 Main Menu – Files Option.

	Task	Detail
1.	Select "Files" from Main Menu.	From the CHECKS III Main Menu, highlight "**Files**" and select Enter (or select the "**F**" key).

6.4.1 Delete File

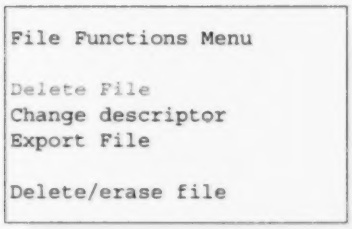


Figure 6.17 File Functions Menu - Delete File.

	Task	Detail
1.	Select "**Delete file**" from File Function Menu.	From the File Functions Menu, highlight "**Delete file**" and select Enter (or select the "**D**" key).

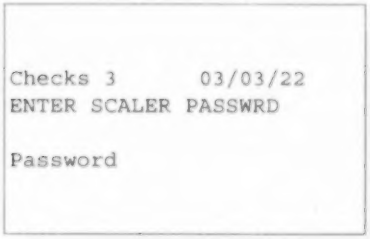


Figure 6.18 Enter Scaler Password menu.

	Task	Detail
2.	Enter password.	Enter a valid password and press Enter. The default password is "**PASSWORD**". If an incorrect password is entered, or if files do not exist for deletion, the user will be returned to the Files Menu.

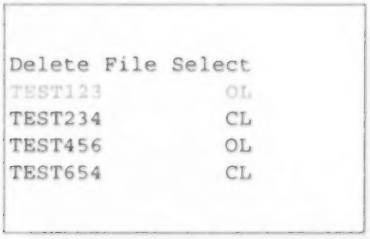


Figure 6.19 Delete File Selection menu.

	Task	Detail
3.	Select a file for deletion.	From the "**Delete File Select**" screen, highlight the file to be deleted and select Enter. The file details will be shown.

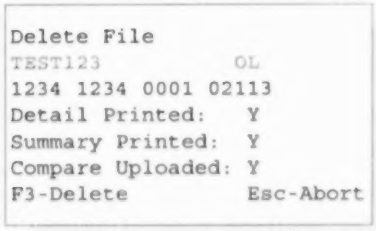


Figure 6.20 Delete File menu.

	Task	Detail
4.	Select F3 to delete.	Select F3 to delete the file. A message is displayed to confirm the file has been deleted.

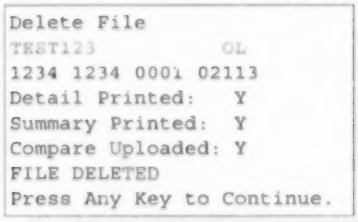


Figure 6.21 Delete Confirmation screen.

	Task	Detail
5.	Select any key.	Select any key to return to "**Delete File Select**" screen to delete more files.
6.	Select F3 to exit or delete more files.	Select F3 to exit to the Files Menu, or repeat steps 3 through 5 to delete more files.

6.4.2 Change File Descriptor

Change Descriptor allows the user to rename a file.

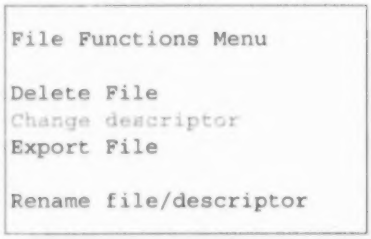


Figure 6.22 File Functions Menu – Change Descriptor Option.

	Task	Detail
1.	Select "**Change descriptor**" from File Function Menu.	From the File Functions Menu, highlight "**Change descriptor**" and select Enter (or select the "**C**" key).

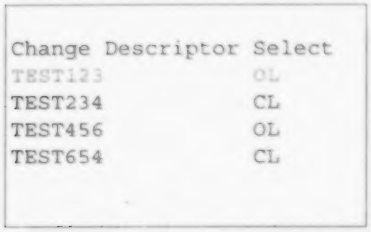


Figure 6.23 Change Descriptor Selection menu.

	Task	Detail
2.	Select the appropriate file.	Using the cursor keys, highlight the file to be renamed and select Enter.

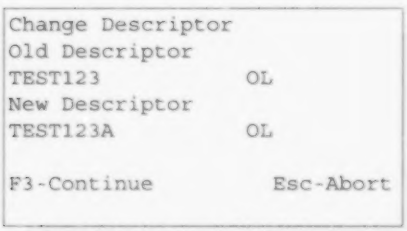


Figure 6.24 Change Descriptor Information screen.

	Task	Detail
3.	Enter new Descriptor.	Enter a new Descriptor (name) up to a maximum of 17 characters and select F3 to save and exit to the File Menu.

Navigation within the Tables Edit and Files Screens

F1	Help.
F3	Save changes and Exit to previous screen.
F4	Pick-List.
F5	Setup/LogFuncs.
F9	Insert a blank record pushing the current record "down".
F10	Delete the current record from the table.
Page UP/DOWN	Jump UP/DOWN records, by Jump Factor (or to Top/Bottom if Jump key is OFF). (Refer to Chapter 7 – "Settings" for information about how to set Jump Factor).
ESC	Exit without saving changes. The user is required to confirm the action by selecting "**Y**" or "**N**" to the following message: "**Exit without saving (Y/N)?**"

Settings 7

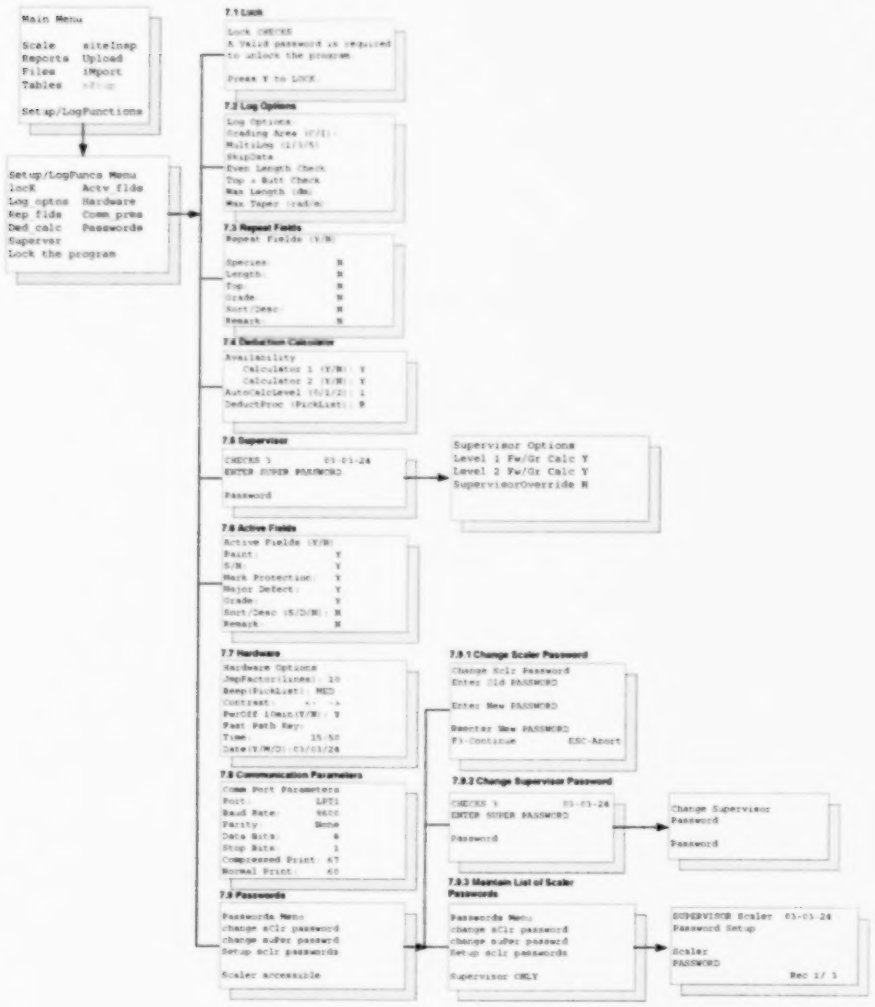


Figure 7.1 Flowchart showing the Settings procedure

Procedure	These procedures describe the options found under the Setup/LogFuncs Menu: • **"Lock"** – restrict CHECKS III to unauthorized users. • "**Log Options**" - edit checks applying to log or summary data entry. • "**Repeat Fields**" - repeats data to new line in log or summary data entry. • "**Deduction Calculator**" - Level 1 and 2 deduction calculator settings. • "**Supervisor**" - allows a supervisor to disable the deduction calculators. • "**Active Fields**" - allows log or summary data entry fields to be turned OFF. • "**Hardware**" - adjust some handheld specific features. • "**Comm Parameters**" - sets printer options. • "**Passwords**" - set or change passwords. A new or experienced user of CHECKS III may change these setting to customize CHECKS III.
Menu	• Select the "**sEtup**" option from the CHECKS III main menu or: • Select F5 from almost any screen within the program. When F3 is selected from the Setup/LogFuncs menu, the user will be returned to the previous screen before F5 was selected.

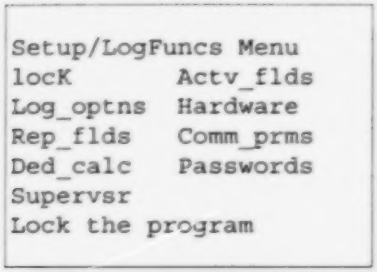


Figure 7.2 Setup/LogFuncs Menu.

7.1 Lock

This option allows the handheld to be "locked" until a valid password is entered. To maintain passwords, see Section 7.9. Locking the handheld is optional. Use this option to restrict access to the CHECKS III application (and scaling data) by unauthorized users (for example, when leaving the handheld unattended).

	Task	Detail
1.	Select "**locK**" from Setup/Logfuncs Menu.	From the Setup/LogFuncs Menu, highlight "**locK**" and select Enter (or select the "**K**" key).

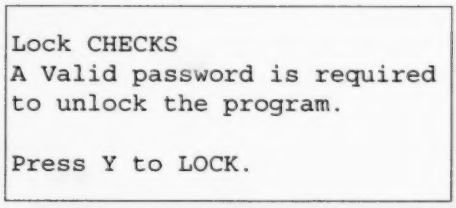


Figure 7.3 Lock CHECKS menu.

	Task	Detail
2.	Select "'**Y**" to lock the handheld.	Select "**Y**" to lock the handheld or any other key to return to the Setup/LogFuncs Menu. A valid password is required to unlock the handheld. See section 7.9 for more information about setting up a password. **WARNING:** It is possible to lock the handheld without knowing the password to unlock it.

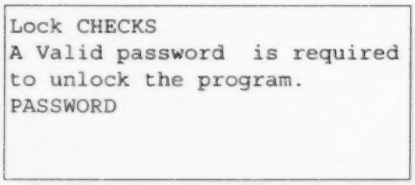


Figure 7.4 Lock CHECKS menu.

	Task	Detail
3.	To unlock the handheld, enter a valid password.	Enter a valid password and select Enter to unlock the handheld. The default password is "**PASSWORD**". See Section 7.9 for information about setting up a password.

7.2 Log Options

This section describes the options for edit checks and how to display setup for the log and summary data entry screens.

	Task	Detail
1.	Select "**Log_optns**" from Setup/Logfuncs Menu.	From the Setup/LogFuncs Menu, highlight "**Log_optns**" and select Enter (or select the "**L**" key).

```
Log Options:
Grading Area (C/I):
MultiLog (1/3/5)
SkipData
Even Length Check
Top > Butt Check
Max Length (dm)
Max Taper (rad/m)
```

Figure 7.5 Log Options menu

To bypass any of the above fields, select Enter or use the cursor keys.

	Task	Detail
2.	Enter "C", "I " or "B" for "**Grading Area**".	For "**Grading Area**" enter: • **C** - only coastal grades edit rules apply • **I** - only interior grades edit rules apply • **B** - both Coastal and Interior grades edit rules apply

	Task	Detail
3.	Enter "1", "3", or "5" for '**MultiLog**'	For "**Multilog**" enter: • **1** to show only one line of log or summary data on the screen. • **3** to show 3 lines of log or summary data on the screen. Previous log, current log and next log. • **5** to show 5 lines of log or summary data on the screen. The default value for MultiLog is 1.
4.	Enter "Y" or "N" for "**SkipData**"	For "**SkipData**" enter: • **Y** – Allows the user to leave fields incomplete when entering log detail information. At least species (Sp) and 1 dimension must exist on the line before the user may move to the next log. All incomplete fields must be populated before the user is permitted to exit the parcel. • **N** - All fields must be completed before the user is permitted to continue to the next field. Fields may not be skipped. The default for SkipData is N.
5.	Enter "Y" or "N" for "**Even Length Check**"	For "**Even Length Check**" enter: • **Y** - To warn the user an odd length has been entered. • **N** - No warning is given. The default for Even Length Check is N.

	Task	Detail
6.	Enter Y or N for "**Top > Butt Check**"	For "**Top > Butt Check**" enter: • **Y** - To warn the user if the top dimension entered is larger than the butt dimension. • **N** - No warning is given. The default for Top > Butt Check is N.
7.	Enter a "**Max Length**"	For "**Max Length**" enter a value 1-999 (dm). A warning is displayed if the user enters a log length that is longer than the value entered for "Max Length". The default value for Max Length is 250.
8.	Enter "**Max Taper**"	For "**Max Taper**" enter a value 0-9 (rads/m). A warning is displayed if the taper of a log entered exceeds this value. The default for Max Taper is 5. **NOTE:** At this last field, the program will BEEP. The user cannot advance past the last field on the screen – the beep is provided as a warning to the user.
9.	Select F3 to save and exit.	Select F3 to return to the Setup/LogFuncs Menu, saving the new settings.

7.3 Repeat Fields

These options apply to both Log and Summary Data Entry screens. The Repeat Fields functionality allows data entered in a field on the log/summary line to be repeated when the user moves to a new line.

	Task	Detail
1.	Select "**Rep_flds**" from Setup/Logfuncs Menu.	From the Setup/LogFuncs Menu, highlight "**Rep_flds**" and select Enter (or select the "**R**" key).

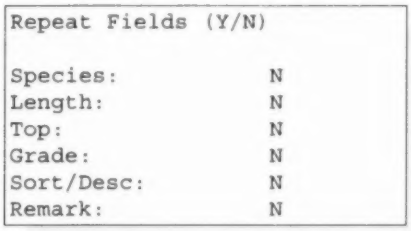


Figure 7.6 Repeat Fields menu.

To bypass any of the above fields, select Enter or use the cursor keys.

	Task	Detail
2.	Enter "Y" or "N" for each field.	If "**Repeat**" is set to: • **Y** - will carry the value entered for the particular field to a new log (or summary line). • **N** - the field will be blank for each new line and must be entered manually. Default for all values is N. **Species** - Sp (Log & Summary) **Length** - Len (Log) **Top** - Top (Log) **Grade** - Gr (Log & Summary) **Sort/Desc** - Sort or Desc (Log) Srt or Dsc (Summary) **Remark** - Rm (Log) **NOTE:** At this last field, the program will BEEP. The user cannot advance past the last field on the screen – the beep is provided as a warning to the user.
3.	Select F3 to save and exit.	Select F3 to return to the Setup/LogFuncs Menu, saving the new settings.

7.4 Deduction Calculator

These options apply to the deduction calculator, accessed from the Log Data Entry screen.

	Task	Detail
1.	Select "**Ded_calc**" from Setup/LogFuncs Menu.	At the Setup/LogFuncs Menu, highlight "**Ded_calc**" or select the "**D**" key.

```
Availability
   Calculator 1 (Y/N): Y
   Calculator 2 (Y/N): Y
AutoCalcLevel (0/1/2): 1
DeductProc (PickList): R
```

Figure 7.7 Setup/LogFuncs Menu.

To bypass any of the above fields, select Enter or use the cursor keys.

	Task	Detail
2.	Enter "Y" or "N" for "**Availability**" (Calculator 1 or 2).	For "**Availability**" (Calculator 1 and 2) enter: • **Y** - Calculator is ON and available for use. • **N** – Calculator is OFF and cannot be accessed. The default for Calculator Availability is "Y".

	Task	Detail
3.	Enter "0", "1", or "2" for "**AutoCalcLevel**".	For "**AutoCalcLevel**" enter: • **0** - When a defect code is entered on the log entry line, the user is not taken to the deduction calculators. To access the calculators, select F2. • **1** - When a defect code is entered on the log entry line, the user is automatically taken to the Level 1 Calculator. To launch the Level 2 Calculator, select F2. • **2** - When a defect code is entered on the log entry line, the user is automatically taken to the Level 2 Calculator. The default for "AutoCalcLevel" is 2.
4.	Enter "L", "R" or "V" for "**DeducProc**".	Net volumes based on defects entered in the Level 2 Calculator will use the calculation methods set here. For "**DeducProc**" enter: • **L** - All defects are calculated as LENGTH deductions. • **R** - RAD deductions will be calculated for rot running the full length of the log and rot running 1/2 length when only one diameter has been entered (eg. heart rot, ring rot). All other defects will be calculated as LENGTH deductions. • **V** - All defects will be calculated in VOLUME (cubic metres). No deductions may be entered in the Level 1 Calculator. The default for "DeducProc" is V.

		Use F4 (pick-list) for DeducProc. **NOTE:** At the last field, the program will BEEP. The user cannot advance past the last field on the screen – the beep is provided as a warning to the user.
5.	Select F3 to save and exit.	Select F1 to return to the Setup/LogFuncs Menu, saving the new settings.

7.5 Supervisor

This option allows a supervisor to lock out some or all of the Deduction Calculator functions.

	Task	Detail
1.	Select "**Supervsr**" from Setup/LogFuncs Menu.	At the Setup/LogFuncs Menu, highlight "**Supervsr**" or select the "**S**" key.

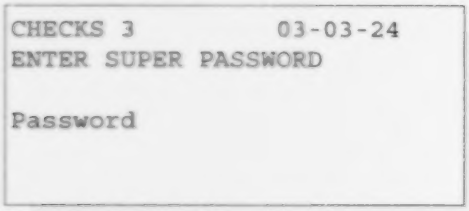


Figure 7.8 CHECKS ENTER SUPER PASSWORD screen.

	Task	Detail
2.	Enter the Supervisor password.	Type the supervisor password and select Enter. See section 7.9 for more information about setting up a password. The default password is **PASSWORD**.

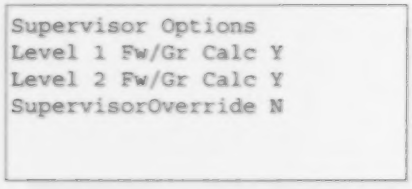


Figure 7.9 Supervisor Options menu

To bypass any of the above fields, select ENTER or use the cursor keys.

	Task	Detail
3.	Enter "Y" or "N" for "**Level 1 or 2 Fw/Gr Calc**".	For "**Level 1 Fw/Gr Calc**" and "**Level 2 Fw/Gr Calc**" enter: • **Y** – Calculator is ON and available for use. • **N** – Calculator is OFF and cannot be accessed. The default for is Y. These settings will not take effect unless the "SupervisorOverride" is set to "Y" (see step 4 below).
4.	Enter "Y" or "N" for "**Supervisor Override**".	For "**SupervisorOverride**" enter: • **Y** - The above settings override the deduction calculator settings in section 7.4. • **N** - The above settings are ignored. The default "Supervisor Override" is N. **NOTE**: At the last field, the program will BEEP. The user cannot advance past the last field on the screen – the beep is provided as a warning to the user.
5.	Select F3 to save and exit.	Select F3 to return to the Setup/LogFuncs Menu saving the new settings.

7.6 Active Fields

The 'Active Field' option turns ON or OFF fields on the Log or Summary Data Entry screens. If a field is turned OFF, the user cannot access the fields.

	Task	Detail
1.	Select "**Actv_flds**" from Setup/LogFuncs Menu.	At the Setup/LogFuncs Menu highlight "**Actv_flds**" or select the "**A**" key.

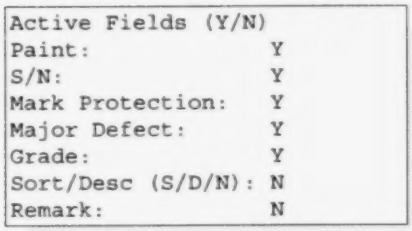


Figure 7.10 Active Fields menu

To bypass any of the above fields select ENTER or use the cursor keys.

	Task	Detail
2.	Enter "Y" or "N" for "**Paint**".	For "**Paint**" (**Pt** on TimberMark line of the log or summary data entry screens) enter: • **Y** - Turns ON "**Pt**" field. • **N** - Turns OFF "**Pt**" field (the field will be bypassed). The default for "Paint" is Y.

	Task	**Detail**
3.	Enter "Y" or "N" for "**S/N**".	For "**S/N**" (**NMV** field on TimberMark line of the log or summary data entry screens) enter: • **Y** - Turns ON "S/N" field. • **N** - Turns OFF "S/N" (the field will be bypassed). The default for "S/N" is Y.
4.	Enter "Y" or "N" for "**Mark Protection**".	For "**Mark Protection**" enter: • **Y** - the TimberMark field cannot be reached from the Log/Summary data entry line. • **N** - the TimberMark field can be reached from the Log/Summary data entry line by pressing ⇦ in the Sp field. The default for "Mark Protection" is Y.
5.	Enter "Y" or "N" for "**Major Defect**".	For "**Major Defect**" (**Def** field on log data entry screen) enter: • **Y** - Turns ON the Major Defect field to allow entry of defect codes on the log data entry screen. • **N** - Turns OFF Major Defect field (the field will be bypassed). The default for "Major Defect" is Y.
6.	Enter "Y" or "N" for "**Grade**".	For "**Grade**" (**Gr** field on log or summary data entry screen) enter: • **Y** - Turns ON the Grade field to allow entry of grade codes. • **N** - Turns OFF the Grade field (the field will be bypassed). The default for "Grade" is Y.

	Task	Detail
7.	Enter "Y" or "D" or "N" for "**Sort/Desc**".	For "**Sort/Desc**" (**Sort** or **Desc** fields on log or summary data entry screens) enter: • **S** - Turns on 3-character Sort field. • **D** - Turns on Description field. Use the Pick-list [F4] if desired. Valid codes **B/S** - Boom Sticks, **S/W** - Swifters, **DEA** - Dead Heads, **CHU** - Chunks, **SUB** - Submerged Log, or ' ' (BLANK). • **N** - turns OFF the Sort/Desc field (the field will be bypassed). The default for "Sort/Desc" is N. **NOTE:** Sort cannot be on at the same time as Desc.
8.	Enter "Y" or "N" for "**Remark**".	For "**Remark**" (**Rm** field on log detail or summary data entry screens) enter: • **Y** - Turns ON the Remark field • **N** - Turns OFF the Remark field (the field will be bypassed). Default for "Remark" is N. **NOTE:** At the last field, the program will BEEP. The user cannot advance past the last field on the screen – the beep is provided as a warning to the user.
9.	Select [F3] to save and exit.	Select [F3] to return to the Setup/LogFuncs Menu saving the new settings.

7.7 Hardware

This option allows the user to adjust some features specific to the handheld. Some of these settings do not apply to CHECKS III running on the desktop PC.

	Task	Detail
1.	Select "**Hardware**" from Setup/LogFuncs Menu.	From the Setup/LogFuncs Menu, highlight "**Hardware**" or select the "**H**" key.

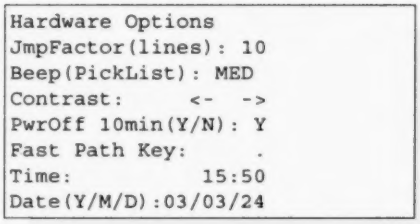


Figure 7.11 Hardware Options menu.

To bypass any of the above fields, select Enter or use the cursor keys.

	Task	Detail
2.	Use F4 (pick-list) to select "**JmpFactor**".	"**JmpFactor**" (PgUp/PgDn on FS/2 or FS/GS) moves Up/Down through the list of records (eg. logs, scaler table entries, etc.) by the number specified here. Use F4 (pick-list) to choose a value – highlight the value and press ENTER. • **0** - jumps to top/bottom of list • **5** - jumps up/down by 5 records • **10** – jumps up/down by 10 records • **25** - jumps up/down by 25 records • **100** - jumps up/down by 100 records The default for "JmpFactor" is 10.
3.	Select F4 (pick-list) to select "**Beep**".	Select F4 (pick-list) to choose the desired beep indicator – highlight the value and select Enter. "**Beep**" is the warning indicator. • **HIGH** - loud BEEP • **MED** - medium BEEP • **LOW** – low volume BEEP • **OFF** - no warning BEEP The default for "Beep" is MED.
4.	Set "**Contrast**".	This function adjusts the handheld display for different lighting conditions. Follow the instructions on the handheld screen to adjust the contrast or select Enter to bypass. See Chapter 8 or 9 for alternate ways to adjust the contrast for the FS/2 or FS/GS handhelds.

	Task	Detail
5.	Type "Y" or "N" for "**PwrOff 10min**".	For "**PwrOff 10 min**" enter: • **Y** - turns the handheld off automatically after 10 minutes of inactivity • **N** - does not turn the handheld off automatically The default for "PwrOff 10min" is Y.
6.	"**Fast Path Key**"	Recommend this option be ignored. The default is '.' (period).
7.	Enter "**Time**".	Change current "**Time**" by overwriting the values (HH:MM).
8.	Enter "Date".	Change current "**Date**" by overwriting the values (YY/MM/DD).
9.	Select F3 to save and exit.	Select F3 to return to the Setup/LogFuncs Menu saving the new settings.

7.8 Communication Parameters

The Printing Communication Parameters options set up CHECKS III to print to a particular printer (handheld printer, PC printer, or LAN based printer). Supported printers are:

- Canon BCJ-85, and
- HP Laserjet emulation.

	Task	Detail
1.	Select "**Comm_prms'** from Setup/LogFuncs Menu.	From the Setup/LogFuncs Menu, highlight "**Comm_prms**" or select the "**C**" key.

```
Comm Port Parameters
Port:              LPT1
Baud Rate:         9600
Parity:            None
Data Bits:            8
Stop Bits:            1
Compressed Print:    67
Normal Print:        60
```

Figure 7.12 Printer Comm Parms menu.

	Task	Detail
2.	Select F4 (pick-list) to choose a "**Port**".	For "**Port**" select F4 (pick-list) to choose the port the printer is connected to: • **COM1** - Comm Port 1 (top left connector on the FS/2 or FS/GS handheld. • **COM2** - Comm Port 2 (top left connector on the FS/2 or FS/GS handheld. • **LPT1** - Desktop PC printer port used for CHECKS PC. • **LPT2** - used for LAN attached printer on the PC • **LPT3** - used for LAN attached printer on the PC The "Port" default is COM2 for handheld, LPT1 for PC.
3.	Select F4 (pick-list) for "**Baud Rate**".	The default is 9600. This value should never change.
4.	Select F4 (pick-list) for "**Parity**".	The default is NONE. This value should never change.
5.	Select F4 (pick-list) for "**Data Bits**".	The default is 8. This value should never change.
6.	Select F4 (pick-list) for "**Stop Bits**".	The default is 1. This value should never change.

	Task	Detail
7.	Enter "47", or "67" for "**Compressed Print**".	"**Compressed Print**" is the code used to set compressed print on the printer: • **47** – Used for a HP Laserjet printer. • **67** – Used for a Canon BJC-85 printer. The default for "Compressed Print" is 67.
8.	Enter "40" or "60" for "**Normal Print**".	"**Normal Print**" is the code used to return the printer to normal print font after it has been in compressed print. • **40** - Used for a HP Laserjet printer. • **60** - Used for a Canon BJC-85 printer. The default for "Normal Print" is 60.
9.	Select F3 to save and exit.	Select F3 to save the new settings and return to the Setup/LogFuncs Menu.

7.9 Passwords

This option allows the user to set or change any of the passwords used in the CHECKS III program.

Passwords are required for:

- Unlocking the CHECKS III program,
- Deleting files, and
- Supervisor functions.

	Task	Detail
1.	Select "**Passwords**" from Setup/LogFuncs Menu.	From the Setup/LogFuncs Menu, highlight "**Passwords**" or select the "**P**" key.

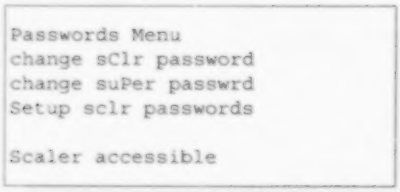


Figure 7.13 Passwords Menu.

There are 3 password options available from the Passwords Menu.

7.9.1 Change Scaler Password

This option allows the user to change an existing scaler password (e.g. the default password 'PASSWORD') to a new password.

	Task	Detail
2.	Select "**change sClr password**" from the Passwords Menu.	From the Passwords Menu, highlight "**change sClr password**" and select Enter (or select the "**C**" key).

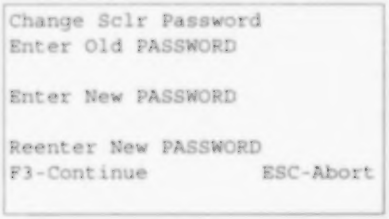


Figure 7.14 Change Sclr Password menu.

	Task	Detail
3.	Enter old password.	Type old password and select Enter (the password must be less than 8 characters).
4.	Enter new password.	Type new password (up to 8 characters) and select Enter.
5.	Re-enter new password.	Type new password again. **NOTE:** At this field, the program will BEEP. The user cannot advance past the last field on the screen – the beep is provided as a warning to the user.
6.	Select F3 to change password and exit.	Select F3 to change/save the new password and return to the Setup/LogFuncs Menu.

7.9.2 Change Supervisor Password

	Task	Detail
1.	Select "**change suPer passwrd**" from the Passwords Menu.	From the Passwords Menu, highlight "**change suPer passwrd**" and select Enter (or select the "**P**" key).

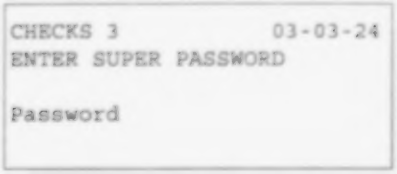


Figure 7.15 CHECKS ENTER SUPER PASSWORD screen

	Task	Detail
2.	Enter Supervisor password.	Type in Supervisor password and select Enter. NOTE: If an incorrect password is entered, the user will be returned to the Passwords Menu.

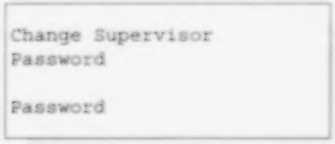


Figure 7.16 Change Supervisor Password screen

	Task	Detail
3.	Enter a new Supervisor password.	Type in a new Supervisor password (up to 8 characters) and select F3 to save the password and exit to the Passwords Menu.

7.9.3 Maintain List of Scaler Passwords

This option allows a supervisor to maintain a list of up to 10 scaler passwords. The default scaler password is 'PASSWORD'.

	Task	Detail
1.	Select "**Setup sclr passwords**" from Passwords Menu.	From the Passwords Menu highlight "**Setup sclr passwords**" and select (or select the "**S**" key).

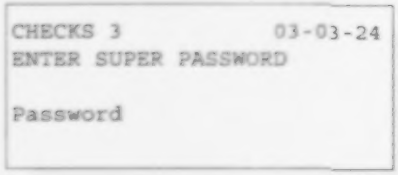


Figure 7.17 CHECKS ENTER SUPER PASSWORD screen.

	Task	Detail
2.	Enter Supervisor password.	Type in Supervisor password and select Enter. **NOTE:** If an incorrect password is entered, the user will be returned to the Passwords Menu.

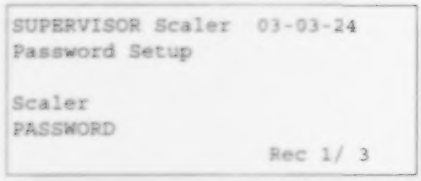


Figure 7.18 SUPERVISOR Scaler Password Setup screen

If there is more than one scaler password in the list, use the cursor keys to scroll through the list.

	Task	Detail
3.	Enter a new scaler password or update existing one and select F3.	To change an existing scaler password, overwrite the password. To enter a new password, use the cursor to move down to a new line (up to 10 lines/passwords), and type in the new password. Select F3 to save and exit the list of passwords.

Husky FS/2 and FS/GS 8

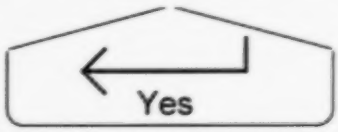
This chapter focuses on the Husky FS/2 and FS/GS handheld units interfacing with the CHECKS III program.

Topics covered are:

- Important keys,
- Physical features specific to handheld,
- Using batteries, and
- Handheld distribution kit contents.

8.1 Husky FS/2 or FS/GS

8.1.1 Important Keys

On/Off:	The On/Off key is the Red key located just below the screen on the right side of the unit.
Enter Key:	The largest key on the keyboard, situated at the centre of the machine. 

The function of the Enter key is the same as <Enter> on the computer – <Enter> should not be used for "Y" or "Yes".

PAW Key ( )	The key is located just below the Enter key and between the cursor keys. It is Husky's special function key - used in combination with other keys to access such things as Function Keys, special hardware setup (e.g., AutoPowerOff, Screen Font) and backlight.

SHIFT	The FS/2 and FS/GS have two Shift keys - located on either side of the Enter key.
Clr	This key is located at the bottom right of the alpha keypad. It serves the same function as the "Backspace" key on a PC.
Function Keys:	There are four function keys: F1, F2, F3, F4 located just below the screen, between the On/Off key and the ESC key. An alternate method of accessing the function keys (as well as accessing F5 -> F10) is to depress the "●" key and select one of the numeric keys 1 -> 0 at the same time (F1 -> F10 are called. F1 = ● + 1 F2 = ● + 2 F3 = ● + 3 F8 = ● + 8 F9 = ● + 9 F10 = ● + 0

Backlight	The screen's backlight may be toggled On/Off by pressing + **L**. There is an automatic time-out for the backlight (default is 2 minutes) as it drains the batteries faster than normal operation.
Contrast	The contrast may be adjusted by selecting: **SHIFT** + ↓ - Lighter **SHIFT** + ↑ - Darker
Sound	Use + **S** to toggle the sound level between Off/Low/High.
Reset	Hold down the two Shift keys and the On/Off button (Shift+Shift+On/Off) until the screen goes black. This will take about 2 seconds.

WARNING: ONLY USE RESET in extreme situations as data loss or corruption may occur.

Screen Map	Use + **M** to toggle between a "full" computer screen on the FS/2 or FS/GS display and the normal view. The FS/2 or FS/GS display is actually just a "window" of a full computer screen 80x25 characters and shows only a portion of this full screen at any given time. The CHECKS software uses only a small window (30x8 characters) so this is not relevant to us.
Shift Window	To move the "screen map" around, use the following keys. You would need to use these keys if the "window" moves away from the CHECKS screen. + ↑ **Shift** window UP + ↓ **Shift** window DOWN + → **Shift** window LEFT + ← **Shift** window RIGHT

8.1.2 Physical Features

Comm Ports	The communications ports are set up as COM1 and COM2 from left to right on the top of the FS/2 handheld unit (see diagram below). The FS/GS handheld only has one communication port – located on the left side of the unit.

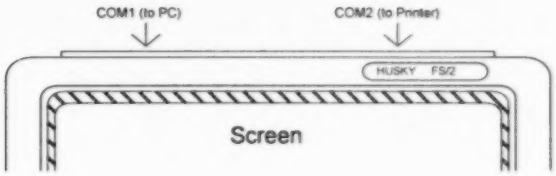


Figure 8.1a Example of where to locate the Comm Ports.

Charger Port	The charger port for the FS/2 is located on the bottom of the unit (beside the battery cap). The FS/GS does not have a charger port.
Moisture Indicator	In the bottom, right corner of the FS/2 or FS/GS screen is a cut out circle with a piece of paper in it. If the paper is blue, there is no moisture inside the unit. If it is red, moisture has got inside the unit and it must be sent back to the dealer for servicing.
Battery Compartment	The battery compartment is accessed from the cap at the bottom of the FS/2 or FS/GS unit. A coin should be used to unscrew the cap (a screwdriver will damage the slot).

There is a washer on the cap to seal the battery compartment. If the washer wears out or breaks, it will need to be replaced. Check the washer every now and then. If the washer is broken or has fallen off, water will get into the unit through the battery compartment, damaging the handheld – replace the washer immediately.

8.1.3 Batteries and FS/2 or FS/GS

8.1.3.1 Using Disposable Batteries

Most FS/2 or FS/GS users are using disposable 'AA' alkaline batteries. These batteries are generally more reliable than the 'A' cell NiCad rechargeables, and are a little more flexible when low power comes on. The rechargeable NiCad batteries however, do perform better in temperatures around and below $0^{O}C$.

To install a new set of AA alkaline (disposable) batteries into the Husky FS/2 or FS/GS:

1. Remove the old set of batteries and insert 3 fresh AA sized ALKALINE cells into the battery compartment.

   a. Use a battery tester to ensure the replacement batteries are in fact 'fresh'. Occasionally, there may be a dead battery in a box of new ones. If a "dead" or "almost dead" battery is mixed with new, fresh batteries, the whole set of batteries may only last a few minutes.

   b. Do not insert the batteries backwards into the battery compartment. This may cause damage to the unit - requiring service to the handheld unit. The batteries should be inserted **Positive side down** into the compartment.

   c. Insert the batteries gently! Do not "drop" the batteries into the unit as damage may occur.

2. Turn the unit on. If the "Setup Screen" does not come up within 10 seconds, select + **H** to view the Setup screen:

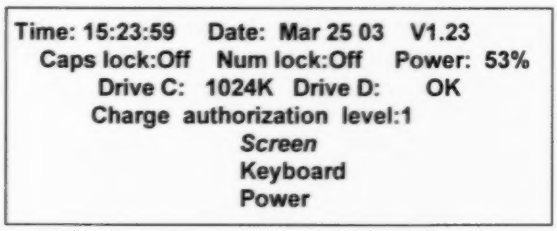


Figure 8.2 FS/2 or FS/GS Setup Screen.

3. Use the ←/→ cursor keys to highlight "**Power**" and select "Enter".

4. Use the ↑/↓ cursor keys to set "**Advanced Power Management**" to "Yes" and select "Enter".

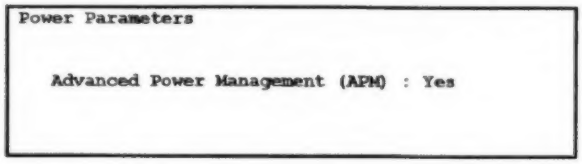


Figure 8.3 Power Parameters screen.

5. Use the ←/→ cursor keys to move through the items on the list.

   Use the ↑/↓ cursor keys to change the selected settings as shown below:

> If you are replacing existing AA Alkaline batteries, you only need to change the "Power Remaining" setting back to 100 percent. If this figure is below 20 percent, the FS/2 or FS/GS will continue to shut off until you successfully reset this number to 100 percent.

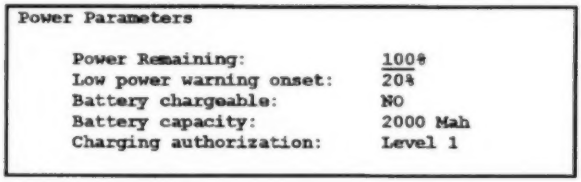


Figure 8.4 Power Parameters screen.

6. When these values are correctly set select "Enter" to save changes and exit to the FS/2 or FS/GS Setup Screen.

7. From the FS/2 or FS/GS Setup Screen, select ESC to return to the CHECKS program.

You may now use the FS/2 or FS/GS handheld until the "Low Power" warning is displayed.

Notes:

1. Any time the user is in any of the FS/2 or FS/GS Setup screens ("⚙ + H") and makes a change, the "Enter" key must be selected. If the ESC key is selected, all changes will be lost.

2. Using these settings should allow for extra power, possibly 25 percent of the battery remaining. This allows some flexibility when the 'Low Battery' warning comes on. However, ignoring the 'Low Battery' warning is not recommended in general, as it increases the chances of a crash, data loss or data corruption.

3. With the charging capability turned off (Battery chargeable = No) you may run the handheld from a power cord when in the office uploading and printing etc. Using the power cord will save some battery power.

> **WARNING:** Point 3 above: if the setting "**Battery chargeable**" is set to "Yes" instead of "No", the handheld will attempt to charge the disposable alkaline batteries, causing the batteries to leak or explode - damaging the handheld.

4. Typically, a user should expect 1.5 to 2.5 weeks of steady check scaling from a new set of disposable alkaline batteries. This will decrease considerably at temperatures around 0 C.

5. Carry 3 extra batteries with you. Do not leave them loose with metal objects (e.g., with keys in pocket) as they may short causing a spark, burns or fire.

6. If you feel the batteries are too loose in the compartment a tube of card stock can be made from a file back.

8.1.3.2 Using Rechargeable Batteries

The handheld may also use "A" sized batteries which are only available in rechargeable (Nickel Cadmium or NiCad) format. These "A" cells are the same length as the "AA" disposable alkalines, but are thicker, taking up the full diameter of the handheld battery compartment. Fully charged "A" batteries should last at least 16 hours, however we recommend that the handheld be plugged in each night. Under normal conditions you should get 1 years use out of them before the 'NiCad memory' starts affecting battery performance, at which point you should replace the batteries with new NiCads.

One advantage of this battery type is that they generally perform better than the disposable alkaline batteries in temperatures around or below 0°C.

The recommended setting for batteries/power is 'Standard Power Management' (Advanced Power Management = N). This will allow the batteries to be trickle charged. Charging should take 14 - 16 hours.

To install a set of 'A' NiCad Rechargeable batteries into the Husky handheld:

1. Remove the old set of batteries and insert 3 "A" sized NiCad cells into the battery compartment.

   a. **WARNING:** Do not insert the batteries backwards into the battery compartment. This may cause damage to the unit requiring it to be serviced. The batteries should be inserted **Positive side down** into the compartment.

   b. **WARNING:** Insert the batteries gently! Do not "drop" the batteries into the unit as this may damage the unit.

2. Turn the unit on. If the handheld Setup Screen does not come up within 10 seconds, select + **H** to access the screen shown below:

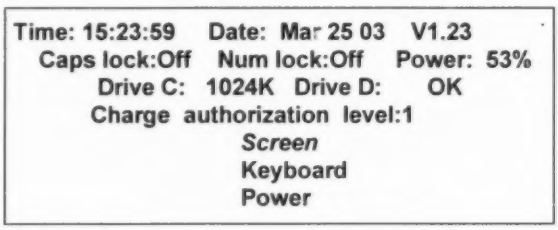


Figure 8.5 FS/2 or FS/GS Setup Screen.

3. Use the ←/→ cursor keys to select "**Power**" and select Enter.

4. Use the ↑/↓ cursor keys to set "**Advanced Power Management**" to "**No**" and select ENTER.

Figure 8.6 Power Parameters screen.

5. From the handheld Setup Screen select ESC to return to the CHECKS program.

> If you are using rechargeable batteries, it is a good idea to leave the handheld plugged in over the weekend - this will keep the internal, backup battery charged. This backup battery prevents loss of data when the main batteries (A or AA cells) are changed, or have died. When the handheld uses non-rechargeable batteries, the internal backup battery will charge off of the main 'AA' batteries.

8.1.4 Scaling FS/2 or FS/GS Distribution

The Husky FS/2 or FS/GS "Kit" should contain:

1	Husky FS/2 or FS/GS handheld computer
1	Orange FS/2 or FS/GS cover
2	Orange or black FS/2 or FS/GS port dust caps
1	AC transformer/charger
1	Vehicle cigarette lighter charger
1	Handheld 9-pin Printer/PC cable * (must be ordered separately on the MSO).
1	9 - 25 pin printer adapter (male/male) * (must be purchased separately for a cost of approximately $10.00)
3	"A" NiCd rechargeable batteries

Or

3	"AA" disposable alkaline batteries

And

1	Plastic or cardboard "spacer"
1	System Developers Guide
1	Husky FS/2 or FS/GS User Leaflet

The System Developer's Guide contains information for programmers and FS/2 or GS/GS support personnel and may not have been issued to users by Region. Important user information from the System Developer's Guide has been summarized in the Husky FS/2 or FS/GS User Leaflet and this document.

If you are missing any of these items, please contact your designated regional support person.

Troubleshooting 9

This chapter describes common problems encountered when using the CHECKS III program and the Husky FS/2 and FS/GS handheld computers. Possible solutions and tips to avoid these problems are provided below.

This chapter lists only the problems likely to occur in the field. Problems and solutions relating to communications with the PC (e.g. Upload to SCS or HBS, re-loading the handheld from the PC) are located in the CHECKS III Scaling Software Handbook.

9.1 General Problems

9.1.1 'PASSWORD' does not work as Password

	Task	Detail
1	Exit CHECKS.	Select F3 from the CHECKS Main Menu and select "**Y**" to confirm.
2.	Delete PASSWORD.FIL file.	Navigate to the **C:\CHECKS3** directory. Delete the file: **PASSWORD.FIL**
3.	Reset the handheld.	**Husky FS/2 or FS/GS**: select and hold down the three keys **SHIFT+SHIFT+ON/OFF** until the display goes black and release.

9.1.2 Lost Loads

- Problem: Log files appear to have disappeared,
- Problem: Log files appear as Scaler#Tally#.CIL (eg. 4777045.CIL), and
- Problem: Reports show only blank header information with no log data.

	Task	Detail
1.	Exit CHECKS.	Select F3 from the CHECKS Main Menu and select "Y" to confirm.
2.	Reset the handheld.	When the 'C:\>' prompt is presented, reset the handheld. **Husky FS/2 or FS/GS**: select and hold down the three keys **SHIFT+SHIFT+ON/OFF** until the display goes black and release.

9.2 Battery Problems

> Battery problems:
>
> Always test each battery with a battery tester before putting the batteries in the handheld. Sometimes a "bad" battery may be in a box of new batteries. If one or more of the 3 batteries in the box is "dead" or "low", the entire set of new batteries may last only a few minutes.

9.2.1 The FS/2 or FS/GS is ON, but nothing appears on the screen.

1. The batteries may be dead. **Solution**: replace or recharge the batteries.

2. Contrast may be set too low. **Solution**: use the keys **SHIFT** + ↑ to darken the display. You may have to hold down the **SHIFT** + ↑ keys for a couple of seconds to notice any changes.

3. The screen "window" may have moved from the Top, Left corner of the "PC" screen. **Solution**: use **Error! Unknown switch argument.** + **M** to access the Screen Map. Ensure the program is still displaying in the incorrect position in the window. If the program is displaying in the wrong position, use **Error! Unknown switch argument.** + **M** to return to the "regular" screen. Select **Error! Unknown switch argument.** + ↑ and **Error! Unknown switch argument.** + ← to set the display to the Top-Left corner of the screen.

9.2.2 The FS/2 or FS/GS unit will not turn ON, or displays a black screen briefly before turning back OFF

1. The batteries may be dead. **Solution**: replace or recharge the batteries.

2. If the handheld has been sitting without batteries, or with dead batteries for a long period of time, the internal backup battery may be dead as well. This internal battery will charge itself from the main batteries. **Solution**: leave the handheld overnight (at least 12 hours) with fresh batteries installed, then try to turn the handheld on again.

9.2.3 The FS/2 or FS/GS unit keeps shutting off, giving a 'WARNING BATTERY LEVEL LOW' message, even though you are certain the batteries are fully charged or are new

1. Test the batteries individually with a battery tester to ensure that one or more batteries are not "dead".

2. Advanced Power Management may be ON and the "Power Remaining" setting may be set incorrectly. The handheld's "power remaining" meter can be fooled - it relies on the user to set the meter whenever new batteries are installed. From this set information, the handheld determines how much power is remaining in the batteries. If the user does not reset the 'Power Remaining' to 100% when new batteries are installed, the handheld will base the "power remaining" calculation as if the old batteries were still being used.

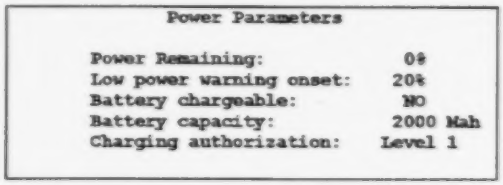


Figure 9.1 Power Parameters screen.

The handheld will keep shutting off as long as long as "Power Remaining" is less than "Low power warning onset". **Solution**: keep the handheld unit on until the "Power Remaining" setting is successfully changed to a number greater than the "Low power warning onset". When the 'Power Remaining' has been set correctly, select Enter to save the changes.

Refer to Chapter 8 – "**Husky FS/2 and FS/GS**" for more information on changing these battery settings.

9.2.4 When printing a report, 'Printing. . .' is displayed and will not go away, and nothing comes out at the printer.

1. Disconnect handheld from the printer and select ESC once. It may take up 2 minutes for the handheld to react.
2. If the message "Print Error - Reset? Yes/No" appears, select '**No - Abandon print**'.
3. Ensure that the cable connections are all correct.
4. Ensure the printer is turned **ON** and is "**On Line**".